Bachelor of Dental Surgery - Second Year

## GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS (BDS-PHAR-201)

Time: 3 hrs. Max

Marks: **80** 

No. of pages: 2

Note: Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each

question.

All questions are compulsory. Draw the diagrams where ever necessary.

Attempt PART-A and PART-B in the separate answer sheets.

#### <u>PART-A</u>

- Q.1 Multiple choice questions:
  - a) Two drugs are said to be bioequivalent if:
    - i) Both drugs produce comparable biological effect in experimental animals.
    - ii) Both drugs produce comparable clinical effects and side effects..
    - iii) Both drugs containing same active ingredients, same dosage forms and administered via same route, result in comparable rate and extend of absorption.
    - iv) Both drugs contain active ingredients of similar biological activity.
  - b) Drug of choice for anaphylactic shock is:
    - i) Epinephrine

ii) Norepinephrine

iii) Dopamine

- iv) Dobutamine
- c) Which type of drugs are better absorbed sublingually:
  - i) Strong electrolytes

ii) Lipophilic drugs

- iii) Quaternary ammonium compounds
- iv) Hydrophilic drugs
- d) Which of the following is a long-acting insulin analogue?
  - i) Insulin aspart
  - ii) Insulin glulisine
  - iii) Insulin lispro
  - iv) Insulin glargine
- e) Which of the following is an oral direct thrombin inhibitor?
  - i) Warfarin

i) Argatroban

iii) Dabigatran

- iv) Fondaparinux
- 1x5

- Q.2 Write short notes on the following:
  - a) FQ drugs.
  - b) Pharmacological management of myocardial infarction.
  - c) Write briefly about selective COX-2 inhibitors.
  - d) Management of status asthmaticus.
  - e) Opioids in the management of pain.

5x5

Q.3 Explain the mechanism of action, examples, adverse effects and uses of 'Local Anesthetic Agents' in detail.

### PART-B

Q.4	a) Low dose i) ii) iii) iv) b) If patient with whic i) iii) c) Omepraz i) iii) analo d) All of the i) iii) e) Which of i) iii)	ice questions: aspirin is used as an: Analgesic Anti-inflammatoryagent Antipyretic Antiplatelet drug has a history of allergy with the of the following beta lace Aminopenicillins Cephalosporins ole is a/an? Proton pump inhibitor Antacid gue following are first line anti Rifampicin Dapsone the following group of anti Penicillin Macrolides	tam antibiotics ii) tubercular dru	G? Carba iv) ii) gs, exc ii) iv)	apenems Monobactam H2 receptor iv) cept? Isoniazid Ethambutol	antagonist Prostaglandin
Q.5	<ul><li>a) ADR of s</li><li>b) Antimicro</li><li>c) Desensiti</li></ul>	bbial resistance. zing agents. nt of typhoid fever.				
Q.6	Classify Peni amoxicillin ir	cillin group of antibiotics. W	/rite mechanis	m of a	ction, uses and	d adverse effects of

Bachelor of Dental Surgery – Second Year

### **COMPUTER APPLICATIONS (BDS-CA-OE-001)**

Time: Marks					Max
		No. of pages: 2			
Note:	ullet Q	uestion Paper has TWO parts: PART-A and PA	RT-B. /	Marks a	re indicated against each question.
	) 4	All questions are <b>compulsory.</b> Draw the diagran	ns whe	re ever	necessary.
	A	ttempt <b>PART-A</b> and <b>PART-B</b> in the separate an	nswer si	heets.	
		PART-	<u>4</u>		
Q.1	Mu	Itiple choice questions:			
	a)	Which tags are most commonly used by search	engine	es?	
					[CO-4][L-1]
		i) Heading		ii)	Title
		iii) paragraph	iv)	All of	the above
	b)	bgcolor is an attribute of body tag.			[CO-3][L-1]
		i) TRUE		ii)	FALSE
	c)	HTML tags are enclosed in: [CO-3][L-1]			
		i) { and }	ii)	< and	>
		iii) ! and ?	iv)	# and	#
	d)	Which is the default alignment in word?			[CO-1][L-1]
		i) Left		ii)	Right
		iii) Centre	iv)	Justify	1
	e)	Following is used for creating presentations:			[CO-2][L-2]
		i) MS Word		ii)	MS Access
		iii) MS Excel		iv)	Power Point
	f)	File extension of word document is:			[CO-1][L-1]

ii) .doc

i) .xls

		III) .word	IV)	.jpeg			
	g)	We can insert a page number at:				[CO-1][L-1]	
		i) Header	ii)	Footer			
		iii) Both i) and ii)	iv)	None of the a	bove		
	h)	A number of letter that appears little	e ab	ove the normal	text is	s called:	[CO-1][L-1]
		i) Superscript	ii)	Subscript			
		iii) Supertext	iv)	Toptext			
	i)	Can data cell contain images?				[CO-3][L-1]	
		i) YES	ii)	NO			
	j)	What is cell padding?				[CO-3][L-1]	
		i) Used to separate cell walls from	the	ir content.			
		ii) Used to space between cells.					
		iii) Both i) and ii).					
		iv) Used to provide width to a cell.		1x10			
Q.2	Wr	ite short notes on the following:					
6x5	b) c) d)	Benefits of Microsoft Word. Comparison of Microsoft Word and Usage of Microsoft Access. Format Painter tool in Microsoft Wo Use of fonts and its attributes in HT	rd.	osoft Excel.		[CO-2][L-2] [CO-2][L-3] [CO-3][L-2] [CO-2][L-2] [CO-2][L-1]	
Q.3	MS	eate a list of 10 faculty members. G-WORD to create an invitation lette ebration.			facult		
0.4		ne i i i i i i	<u>P</u>	ART-B			
Q.4		Iltiple choice questions:		2		[00 F][1 4]	
	a)	Which of the following tag is a spec	cial fo	ormatting tag?		[CO-5][L-1]	
		i) <h1>,</h1>			ii) 	<pre></pre>	
		iii)			iv)	        	
	b)	<ul><li>Which of the following html tag</li><li>i) <scroll></scroll></li></ul>	is u	sed to display	the s	crolling effect of tex [CO-5][L-1] <div></div>	ct on website?
		iii) <marquee></marquee>		iv)	•	of the above	
		,		. • ,			

c)	What is the tag for space?		[CO-5][L-1]
	i)	ii)	
	iii) <space></space>	iv)	<lr></lr>
d)	What is the attribute for image tag?		[CO-5][L-1]
	i) pt		ii) url
	iii) path	iv)	src
e)	Can a data cell contain images?		[CO-5][L-1]
	i) Yes	ii)	No
f)	Can I play audios in HTML? [CO-5][L-1]		
	i) No	ii)	Yes
g)	What attribute is used to specify number of rows?		[CO-5][L-1]
	i) Rownum	ii)	Rownumb
	iii) rn		iv) Rowspan
h)	bgcolor is an attribute of body tag:		[CO-5][L-1]
	i) True	ii)	False
i)	How to create a hyperlink in HTML?		[CO-5][L-1]
j)	Tag for creating an unordered list in html?		[CO-5][L-1]
	i) <ul></ul>	ii)	<0 >
	iii) <li>1x10</li>	iv)	None of the above
Wr	ite short notes on the following:		
a)	Different types of lists in HTML.		
b)	Formatting tags in HTML.		
c)	Importance of blog writing.		
d)	Difference between cell spacing and cell padding.		
e)	<img/> tag in html.		[CO-5][L-2,3] <b>6x5</b>

Q.6 In how many ways can we specify the CSS styles for the HTML element? Explain with examples.[CO 5][L1] **10** 

Q.5

Bachelor of Dental Surgery – Second / Third Year FRENCH (BDS-CDC-OE-001)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 6

Note: All questions are compulsory. Marks are indicated against each question.

#### **SECTION A**

#### Compréhension Écrite

#### Q.1 Lisez le texte et répondez (Read the text and answer the following questions) :

Aujourd'hui, c'est l'anniversaire de mon amie Pauline. Elle a seize ans. Le soir, elle invite ses amis et ses cousins pour célébrer son anniversaire. J'achète un gâteau au chocolat et un cadeau. Elle fête son anniversaire dans le jardin (garden) parce qu'il fait beau. Sa mère prépare des bonbons, des sandwiches, des tartines et des frites. Il y a aussi du jus de fruits et des glaces. Ses parents sont médecins. Ils sont très sympathiques. Elle porte une belle robe blanche. Elle coupe le gâteau et nous chantons << Bon anniversaire>>. Tous les amis donnent les cadeaux à Pauline. Ses parents achètent un portable pour Pauline. Après le dîner, nous chantons et dansons. Je rentre à la maison à 8 h et j'étudie pour mon examen de français.

A. Ré <sub>l</sub>	pondez aux questions (Answer the questions) :
	2
i.)	Quelle est la profession des parents de Pauline ?
ii.)	Quel temps fait-il ?
B. Co	omplétez avec un mot du texte :  5  (Complete with a word from the text):
i.)	Les enfants jouent dans le (jardin/maison/portable)
•	L' de ma mère est le 12 novembre. (examens/anniversaire/invite
iii.)	Le printemps, il fait (belle/beau/bon)
iv.)	La de Diwali est en octobre. (robe/mère/fête)
v.)	Tous les amis donnent à Pauline. (le livre, les cadeaux, médecins
<b>C. Do</b> i i.)	nnez l' infinitif des verbs (write the infinitive form of the verbs):  Chantons:
ii.)	Sont :

iii.)

Achète:

### **SECTION-B**

## **Expression Écrite**

Q.2	Décrivez votre journée ou décrivez votre famille.  (Decribe your daily routine or describe your family)	10
	<u>SECTION-C</u> <u>Grammaire</u>	
Q.3	Mettez au pluriel (write in plural):	
ų.s	5	
	a) Tu manges la pizza.	
	b) Il a un livre anglais.	
	c) Elle est une belle femme française.	
	d) J'aime la chanson.	

	e) Je range la chambre.	
Q.4	Mettez au feminine (write in feminin):	5
	a) Le père de Ben est Italien.	
	b) Le frère d'Alex est beau.	
	c) Voici un petit garçon Indien.	
	d) L'homme Indien est intelligent.	
	e) Le garçon est content.	
Q.5	Complétez avec les adjectifs possessifs (mon,ma,notre,leurs) (Complete using possessive adjectives):  a) Elle aime professeur.	5
	b) Vous parlez à étudiants.	
	c) Je parle à amie.	
	d) Tu finis devoirs.	
	e) Elles aiment robes.	
Q.6	Complétez avec les articles defines – le, la, l', les (Complete using definite articles)  a) Je regarde livre.	5
	b) Nous allons à école.	
	c) Elle sont robes.	
	d) J'ai livres intéressants.	
	e) Vous choisissez voiture verte.	
Q.7	Complétez avec les articles indefinis – un, une, des (Complete using indefinite articles):  a) gommes sont rouges.  b) J'ai sac.  c) Nous avons cahiers.	5
	d) Tu as copine française.	
	e) Tu ne fais pas devoirs.	

Q.8	Complétez avec les prépositions : (sur/dans/avec/de/contre/ à droite de)	5
	(Complete using prepositions)	
	a) Martin va Jacques.	
	b) Le livre est la table du salon.	
	c) Les fruits sont le frigo.	
	d) L'horloge est le mur.	
	e) Les fruits sont le frigo.	
Q.9	Quelle heure est-il ? (What time is it ?)	5
	a) <b>8:30</b> :	
	b) <b>00:00</b> :	
	c) <b>10:15:</b>	
	d) <b>6:45</b> :	_
	e) <b>8:00:</b>	-
Q.10	Écrivez en français et accordez l'adjectif : (Write the french adjective according to the noun)	5
	a) Mon père achète une maison. (Big/Tall)	
	b) La robe est très (Beautiful)	
	c) Mes amis sont (Naughty)	
	d) Alina est (Kind)	
	e) Des livres sont (Small)	
Q.11	Traduissez les expressions en anglais : (Translate the expressions in english)	5
	a) Il fait froid :	
	b) Il neige :	
	c) Il fait beau :	
	d) Il fait du soleil :	
	e) Il fait orageux :	
Q.12	Quelle est leur profession?	5
	(What is their profession?)  a) Elle enseigne à l'école : Elle est	
	c) Il fait un gateau : Il est	

	d) Elle travaille avec les ordinateurs (computers) : Elle est				
	e) Il t	travaille avec l'a	opareil (device,machine) : Il est		
Q.13	Mette	ez en ordre: (Put in order)	):	5	
	a)	Famille/la/cath	édrale/la/va/à		
	b)	Livres/nous/les	:/français/regardons		
	iii.)	Sportive/Sylvie	/très/est		
	iv.)	Français/mon/p	oour/ J'étudie/examen/de.		
	v.)	Belle/une/porte	e/robe/blanche/elle.		
Q.14	Comp		articles partitifs: ing definite articles)	6	
	a) No	ous buvons	thé ou coca.		
	b) Ell	e prend	pizza et chocolats.		
	c) Je	mange	biscuits et Elle mange crois	sant.	
Q.15	Conju	uguez les verb	es:		
	(	10 Conjugate the	verbs):		
	a)	Nous	(acheter) les fleurs.		
	b)	Tu	(aller) à l'école.		
	c)	Elles	(avoir) les livres français.		
	d)	Je	(être) Indienne.		
	e)	II	(faire) un gâteau.		
	f)	Tu	(manger) dans la cuisine.		
	g)	Ils	(nettoyer) la classe.		
	h)	Elles	(finir) le devoir.		
	i)	Vous	(se coucher) tard ?		
	j)	Je	(se laver) ma voiture.		

#### **SECTION-D**

Q.16	Complétez les phrases : (Complete the sentences)	5
	a) est l'hymne national (national anthem) français.	
	b) est le vin (wine) français.	
	c) est la ville (city) de la France.	
	d) est la monnaie (currency) unique européenne.	
	e) est le fromage (cheese) français.	
Q.17	Cochez la bonne réponse: (Choose the correct option)	4
	a) The colours of French flag are i.) Blue, white, red ii.) Orange, white, green iii.) Yellow, white, red	
	b) is the capital of the France.  i.) Lyon ii.) Paris iii.) Nice	
	c) is a monument of France.	
	i.) La Tour iii.) Le Bordeaux Eiffel ii.) Le Brie	
	d) The currency of France is I' i.) Dollar ii.) Franc iii.) Euro	

Annual Examination, August 2022
Bachelor of Dental Surgery – Second/Third Year
SPANISH (BDS-CDC-OE-002)

Time:	3 hrs.	Max Marks: <b>100</b> . of pages: 6						
Note:	All questions are <b>compulsory.</b> Marks are indicated against each que	. •						
Q.1	Lee el texto y responde las preguntas:  Read the text and answer the question	10						
	Querida Gema: ¿Cómo estás? Yo estoy muy bien pero un poco enfadada contigo nunca, ni me llamas por teléfono.	porque no me escribes						
	La nueva escuela es muy grande y bonita. No tengo mue escuela porque soy muy tímido pero tengo un mejor amigo quiene 14 años y es de Italia. El habla italiana, inglés y un po	jue se llama Carlos, él						
	practicamos español juntos. Él es muy alto y delgado. Lleva las gafas y tiene el pelo rizado. A él le gust gustan los deportes. Él es fantástico.	a jugar el futbol y le						
	En la próxima carta te escribiré sobre mi profesor. Escribe pronto o me enfadare.  Muchos besos  Pablo							
	Elige la respuesta correcta Choose the correct option a) ¿De dónde es Carlos? i) Italia ii) España iii) Francia b) ¿Cuantas lenguas habla Carlos? i) 5 ii) 3 iii) 2 c) ¿Cuántos años tiene Carlos? i) 14 ii) 17 iii) 12							
	d) ¿Le gusta jugar? i) Futbol ii) Baloncesto iii) Tenis  Traduce el texto en negrita  Translate the text in bold							
Q.2	Escribe un dialogo entre tú y tu amigo/a discutiendo qué va examen. Write a dialogue between you and your friend discussing to do after the exams. (Use	<del>-</del>						

Complete the se	ses con la conjugación de sentences with the conjugation no en la escu	on of ser/estar.	  1x8
b) El libro que est	á delante de mi botella	de Rohan.	
c) Mi prima y yo _	cerca de nu	estra oficina.	
d) Mi hermano	en la clase de d	español.	
e) Mi padre y mi r	madre enferm	0.	
f) Tú y tú tenéis ι	un bolso que m	nuy pequeño.	
g) ¿Dónde	el museo de arte?		
h) El 30 de abril _	el cumpleaños de	e la señorita.	
ojos y la piel (skin)	de los dibujos ydescribe cómo s ) icture and describe in Spanish. T Marcos tiene 47 años. Él es Marcos es	Talk about their hair, eye and	
2.	Wan-Chin tiene 25 años. El	la es de Taiwán.	
5.	Elizabeth es estadounidense	8.	

Q.5 Complete las frases con la conjugación de ser/ estar Complete the sentences with the conjugation of ser/estar.

1x8

	a) L	os profesores no	)	en la e	scuela.		
	b) E	l libro que está d	delante de	mi botella	de Roh	an.	
	c) M	1i prima y yo		cerca de r	nuestra oficina.		
	d) M	1i hermano		en la clase	de español.		
	e) M	1i padre y mi ma	dre	e	nfermo.		
	f) T	ú y tú tenéis un	bolso que		muy pequeño.		
	اغ (g	Dónde	el r	museo de arte	?		
	h) E	l 30 de abril		_ el cumpleaño	os de la señorita.		
5		ibe qué está h Write what is		<b>.</b>			7
		conducir el	coche,			cocinar, sacar a	
		pasear al pe	erro, re	gar las plantas			
	e.g.	Ella está cocinar	ido.				
THE CASE OF THE PARTY OF THE PA							
a)							
b)							
c)							
d)							
e)	-						•
f)	-						
g)							
h)			· · · · · · · · · · · · · · · · · · ·				

Q.6

Q.7	Eli	ge la respuesta Choose the c	orrecta.		1x12
	a)	¿Cómo	llama?		
		i) tú	ii) se	iii) te	
	b)	Mi padre	e ii) trabaja	n una fábrica.	
		i) trabaja	ii) trabaja	iii) trabajáis	
	c)	i) son ii) son las			
		i) son	ii) son las	iii) están	
	d)		empo libre, me gusta		·
		ı) ballar	bailar ii) bailando		
	e)				ños.
		i) tienen ii) es		iii) está	
	f)	Todos los sábad	os yo	tarde.	_
		i) levanto	ii) me levanto	iii) me ievantas	
	g)		amigo visita a		es.
		i) su		iii) suyo	
	h)	A Roberta	el gato. ii) le gusta	iii) les austan	
	i)		oero durante las vac ii) trabajar		de camarera.
	i)	La películaes	interesa	nte.	
	J/	i) muy	ii) mucha	iii) muchos	
	k)	Todos los días d	e este mes Marisa		_ levanta a las seis y media.
	,	i) me		iii) se	,
	l)	¿	casas hay en es	ta calle?	
		i) cuántas	ii) cuántos	iii) qué	
Q.8	Es	cribe la hora:			
		1x6 Write the ti	ime:		
	a)	8:30 AM:			
	b)	10:50 PM:			
	c)	2:35 AM:			
	d)	1:35 AM:			
	e)	7:42 PM:			
	f)	12:15 AM:			
	_				
Q.9		<b>aduce. Translat</b> I go to the park			1x5

	b)	I get up at 06:	00 almost always. :	
	c)	I can play bask	ketball for the whole day. :	
	d)	They normally	don't eat late. :	
	e)	Frequently she	e travels to Spain. :	
Q.10		Find the e	rrores gramaticales que hay en las siguient errors and rewrite the sentences. i amigo soy amarilla. :	1x5
	b)	Nuestras zapat	tos son blancas. :	<del> </del>
	c)	Vuestros plant	as es verdas. :	
	d)	Mi madre tiene	e una bolsa rojo. :	
	e)	Su portátil son	de color negro. :	
Q.11		esponde las pr Answer the ¿Cuándo es tu		1x5
	b)	¿Cómo se llam	a tu abuelo?	
	c)	¿Cómo se llam	a tu mejor amigo?	
	d)	¿Cómo se llam	a tu hermano/a?	
	e)	¿Dónde estudi	as tú?	
Q.12	Co	-	l verbo llamarse y tener. Dlanks with llamarse and tener.	16
	a)	Yo	José y	doce años.
	b)	Ustedes	Manuel y Pablo y	cinco y seis años.
	c)	Usted	ve	inticuatro años.
	d)	Nosotros		Ricardo y Joselina,
			diez y ocho años respectivan	nente.
	e)	Tú	Oscar	cuatro años.
	f)	Ellas	María y Clara y	trece años.
	g)	Él	Gabriel y Ella	Gabriela. É
			once y Gabriela trece añ	OS.

Bachelor of Dental Surgery – Second Year

### FINANCIAL ACCOUNTING - (BDS-COM-OE-001)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt **PART-A** and **PART-B** in the separate answer sheets.

#### **PART-A**

- Q.1 Answer the following questions:
  - a) As per Income Tax Act, accounting period is started:
    - i) From 1st January to 31st December
    - ii) From 1st April to 31st March
    - iii.) From 1st July to 31st June
  - b) As per dual aspect concept Assets = Liabilities. *(True/False)*
  - c) Accrual Concept is based on \_\_\_\_\_ concept.

(Matching / Cost / Going Concern)

- d) Wages Accounts is always credited. *(True/False)*
- e) Cash discount is allowed to encourage quick or prompt payment. *(True/False)*

[CO-1, 2,3][L-1,2]

1x5

Q.2 Answer the following questions

a)	Discuss the advantages of accounting.	[CO-1][L-1]
b)	Explain 'Cash Book' in brief.	[CO-2][L-2]
c)	Define 'Double Entry System'.	[CO-2][L-1]
d)	Differentiate between capital and revenue expenditure with examples.	
		[CO-2][L-4]

[CO-3][L-3]

e) Elaborate the three golden rules of accounts.

5x5

- Q.3 Journalise the following transactions:
  - a) Dr. Gupta started 'Roshan Dental Clinic' with cash Rs 80,00,000
  - b) He purchased dental chair of Rs 40,00,000 for treatment of patient.
  - c) He paid Rs 5,000 electricity bill and Rs 10,000 salary to assistant.

- d) Received cash Rs 5,000 from patient for their treatment.e) He deposited Rs 1,00,000 into bank.
- f) Depreciation paid Rs 4,000 on chair
- g) Cash withdrawal from clinic Rs 10,000 for personal use.
- h) Rent paid Rs 10,000 through cheque
- i) Treatment Material purchased Rs 4,500 from Mr Ram.
- j) He introduces additional capital Rs 2,00,000 in the clinic.

[CO-2][L-3]

20

#### PART-B

- Q.4 Multiple choice questions:
  - a) Final accounts can be prepared with Ledgers. (True/False)
  - b) Depreciation is decline in the value of \_\_\_\_\_. (Capital/Land/Fixed Assets)
  - c) Trial Balance serves as a summary of all ledger accounts. (True/False)
  - d) Balance sheet is prepared to know the of the firm.

(Accuracy / Financial Position / Profit and Loss)

e) Amount withdrawn for personal use is debited to account.

(Cash / Bank / Drawing / Capital) [CO-1, 2][L-2]

1x5

- Q.5 Answer the following questions
  - a) Define 'depreciation' and their needs of calculation. [CO-1][L-1]
    b) Explain 'Balance Sheet' in brief. [CO-2][L-2]
    c) Explain any two conventions of accounting. [CO-3][L-2]
  - d) Describe any two concepts of accounting.

[CO-2][L-1]

- e) On 1st April 2019 'Roshan Dental Clinic' purchased furniture for Rs 1,00,000/- and spent Rs 20,000/- on its carriage. On the date of purchased it was estimated that the rate of depreciation is 15% with diminishing balance methods. Books are closed on 31<sup>st</sup> March every year. Calculate the amount of depreciation for year 2019-20, 2020-2021 and 2021-22. [CO-2][L-4] **5x5**
- Q.6 Define 'accounting process' in detail and explain briefly its advantages. Mention the different users of accounting information. [CO-2][L-3, 4] **20**

### Bachelor of Dental Surgery – Third Year

### **AESTHETIC DENTISTRY (BDS-CONS-OE-001)**

Time: : Marks:		S.					Max
		No	o. of pages: 2				
Note:	$Q_i$	uesi	tion Paper has TWO parts: PART-A and PA	<b>RT-B.</b> ^	1arks ar	e indicated against each qu	uestion
•	) /	1// q	uestions are <b>compulsory.</b> Draw the diagran	ns wher	re ever i	necessary.	
•	At	tem	npt <b>PART-A</b> and <b>PART-B</b> in the separate an	swer sh	eets.		
			PART-	<u>4</u>			
Q.1	Mu	ltipl	e choice questions:				
	a)	Org	ganosilanes used in composites function as:				
		i)	Resin matrix		ii)	Fillers	
		iii)	Coupling agent		iv)	Activator	
	b)	Dic	or is:				
		i)	Pressable ceramic		ii)	Castable ceramic	
		iii)	Machinable ceramic	iv)	Infiltra	ted ceramic	
	c)	In	case of heavily discolored teeth				
		i)	Etching time is increased followed by adhes	ive app	lication	& composite restoration.	
		ii)	Concentration of etchant is increased for restoration .	llowed	by adl	nesive application and cor	mposite
		iii)	Both of these.				
		iv)	None of these				
	d)	Wh	ich of the following is not a component of m	odified	Mc Inne	es solution?	
		i)	0.2% anaesthetic ether	ii)	36% h	ydrochloric acid	
		iii)	30% hydrogen peroxide	iv)	20% s	odium hydroxide	
	e)	Sha	ade selection should be done under:				
		i)	Natural day light		ii)	Yellow light	

iii) White light

1x5

Any of the above

iv)

Q.2	Wr	ite short notes on the following:		
	b) c) d)	Adhesion. Castable and machinable ceramics. Illusion. Walking bleach technique. Describe the treatment for correction of midlin	ne diasto	ema. <b>5x5</b>
Q.3		fine and classify Dental Veneers. Discuss in delirect veneers.  PART		terials used and technique of fabrication o
Q.4	Mι	Itiple choice questions:		
	a)	Metamerism is:		
		i) Different perception of color by different li	ght sou	rces.
		ii) Variable reflection of light from different d	epths o	an object.
		iii) Variation in surface characterization in you	ing and	old individuals.
		iv) None of the above.		
	b)	Agent used for office bleaching is i) Sodium perborate	ii)	35% hydrogen peroxide
		iii) 20% hydrogen peroxide iv)	10%	hydrogen peroxide
	c)	Microabrasion is:		
		i) Eliminating discoloration by removing surfa	ace ena	mel.
		ii) Bleaching stains		
		iii) Bleaching developmental defects		
		iv) All of the above		
	d)	Silane primer is used to condition the internal	surface	of which of the following indirect veneer.
		i) Composite veneer	ii)	Porcelain veneer
		iii) Both of the above	iv)	None of the above
	e)	What is the best treatment in case of superfici	ial fluor	osis.
		i) Bleaching		ii) Direct veneer

Q.5	Write short notes on the following:	
	a) Write a note on Golden Proportion.	
	b) Describe the role of color in esthetic dentistry.	
	c) Discuss various light curing units used in operative dentistry.	
	d) Differentiate between total etch and self etch bonding systems.	
	e) Discuss about smile line and its types.	5x5

Discuss in detail artistic and scientific principles of esthetic dentistry.

iii) Indirect veneer

Q.6

iv)

Microabrasion

10

1x5

### Bachelor of Dental Surgery – Third Year

### **GENERAL MEDICINE (BDS-GEME-301)**

Time: Marks:								Max
		No	o. of pages: 2					
Note:	ullet Q	ues	tion Paper has <b>TWO</b> parts: <b>PAR</b>	RT-A &	and PAI	RT-B. /	Marks are indicated against each qu	estion.
•	) 4	4// q	uestions are <b>compulsory.</b> Drat	w the	diagran	ns whe	re ever necessary.	
•	A	tten	npt <b>PART-A</b> and <b>PART-B</b> in the	e sepa	arate an	swer si	heets.	
				<u>P</u>	ART-	<u>4</u>		
Q.1	Mu	ltipl	e choice questions:					
	a)	Wh	nich one of these is not present	in DK	A?			
		i)	Blood sugar>250 mg ii	)	Ph of	<t.3< td=""><td></td><td></td></t.3<>		
		iii)	Serum bicarbonate > 20	<b>v</b> )	Serum	+VE fo	or Ketones.	
	b) Which is a wrong statement about Mitral stenosis?							
		i)	Mostly due to rheumatic fever					
		ii)	Characterized by a mid diastoli	c mur	mur			
		iii)	LVH is serve					
		iv)	Baloon valvotomy is an option	for no	on calcif	ic MS		
	c)	Wŀ	nich one of these is not a useful	test f	or AIDS	5?		
		i)	P-24 Antigen		ii)	Weste	rn blot test	
		iii)	CD-4 Count		iv)	Manto	ux	
	d)	All	are OH except:					
		i)	Metformin			ii)	Ramipril	
		iii)	Gliclazide			iv)	Voglibose	
	e)	Wł	nich among these is not a featur	e of p	orimary	pulmor	nary TB?	
		i)	Seen mainly in children					

ii) Seen mainly in adults

iii) Ghon Lesion present

		iv) Localized to middle and lower zone	1x5									
Q.2	Wı	rite short notes on the following:										
	b) c) d)	Oral manifestations of hematologic dosorders Scurvy Trigeminal neuralgia Secondary hypertension Thyroid storm 5x5										
Q.3	De	efine and classify epilepsy. Discuss the management of seizure disorder.	10									
		<u>PART-B</u>	10									
Q.4	Mι	Multiple choice questions:										
	a)	Which one of these is not present in pellagra?										
		i) Diarrhea ii) Dementia										
		iii) Peripheral neuropathy iv) Dermatitis										
	b)	Nephrotic syndrome is characterized by all except one. i) Proteinuria < 2 Gm/24 MS										
		ii) Edema										
		iii) Hypercholestrolemia										
		iv) Serum albumin <30 gm/L										
	c)	Which one of these is not a 1 <sup>st</sup> line ATT?										
		i) INH ii) Rifampicin										
		iii) Kanamaycin iv) Pyrazinamide										
	d)	Which among these is a congenital cyanotic heart disease?										
		i) VSD ii) PDA										
		iii) ASD iv) TOF										
	ല	Which is not among the causes of hypercalcemia?										

Q.5	Write short notes on the following:
	a) HAART
	b) Microvascular complications of diabetes
	c) Megaloblastic anemia
	d) ITP
	e) Syncope
	5x5
Q.6	Define 'cirrhosis'. Mention the causes of cirrhosis liver. Discuss the management of acute hepatic

Sarcoidosis

Multiple myeloma

10

1x5

iv)

ii)

i) Milkalkali syndrome

iii) VIT D Deficiency

encephalopathy.

### Bachelor of Dental Surgery – Second Year

## **GENERAL PATHOLOGY (BDS-GEPA-201)**

Time: 3 hr Marks: <b>80</b>							Max
	No	o. of pages: 2					
Note: • Q	uesi	tion Paper has <b>TWO</b> parts: <b>PART-A</b> a	and PAI	<b>RT-B.</b> /	Marks ar	re indicated against each o	question.
• •	4// q	uestions are compulsory. Draw the	diagran	ns wher	re ever i	necessary.	
• Ai	tten	npt <b>Part-A</b> and <b>Part-B</b> in the separat	te answ	er shee	ets.		
		<u>P.</u>	ART-	<u>4</u>			
Q.1 Mu	ıltipl	e choice questions:					
a)	Dys	strophic calcification					
	i)	Occurs in atheromatous disease					
	ii)	Is associated with hypercalcaemia					
	iii)	Is seen in vitamin D related disease					
	iv)	May be a part of the milk alkali synd	rome				
b)	Irre	eversible cell injury is seen in					
	i)	Apoptosis			ii)	Hypertrophy	
	iii)	Hyaline change		iv)	Fatty c	change	
c)	The	e type of necrosis seen in hypoxic bra	ain is:				
	i)	Caseous necrosis		ii)	Coagu	lative necrosis	
	iii)	Liquefactive necrosis	iv)	Fibrino	oid necro	osis	
d)	Loc	comotion across chemical gradient is	called:				
	i)	Diapedesis		ii)	Chemo	otaxis	
	iii)	Pavement			iv)	Margination	
e)	Wh	at is a small piece of dead bone sepa	arated f	rom hea	althy bo	ne known as?	
	i)	Osteophyte		ii)	Osteos	sarcoma	
	iii)	Involucrum		iv)	Seques	strum	1x5

Q.2 Write short notes on the following:

5x5	b) c) d)	Fa Gh He	pes of necrosis. tty Liver. ion's complex. emophilia. thogenesis of thrombu	JS.					
Q.3	De	fine	and classify 'Shock'.	Describe patho	ogenesi	s of Sep	otic sho	ock and write its stages.	
				<u> P</u>	ART-	<u>B</u>		10	
Q.4	Mu	ltip	le choice questions:						
	a)	Ch	ronic myeloid leukemi	a is characteriz	ed by a	II excep	t.		
		i)	Philadelphia chromos	some					
		ii)	Decrease in NAP sco	re					
		iii)	Splenomegaly						
		iv)	Decrease in Total Le	ukocyte count					
	b)	Th i)	e most significant ris Hyperlipidemia	k factors for at	heroscle ii)		clude a	all of the following except	:
		iii)	"Type A" personality		iv)	Diabet	res		
	c)	Ke	ratin pearls are seen i	n					
		i)	Ameloblastoma			ii)	Squar	mous cell carcinoma	
		iii)	PSA				iv)	Lipoma	
	d)	Ca	use of macrocytic ane	mia is:					
		i)	Sideroblastic anemia		ii)	Iron d	eficiend	су	
		iii)	Vitamin B12 deficiend	су	iv)	Thales	semia		
	e)	Ca	use of edema is:						
		i)	Decreased plasma pr	otein concentra	ation				
		ii)	Decreased hydrostat	ic pressure					
		iii)	Increased plasma pro	otein concentra	tion				
		iv)	Decreased capillary p	permeability					1x5

Write short notes on the following:

Q.5

- a) Laboratory diagnosis of Iron deficiency anemia.
- b) Pathogenesis of Diabetes mellitus.
- c) Dry gangrene Vs Wet gangrene.
- d) Fallot's tetrology.
- e) Leukoplakia of oral cavity. **5x5**
- Q.6 Define and classify neoplasm. Write mechanism and routes of Metastasis.

10

#### Bachelor of Dental Surgery – Third Year

#### **GENERAL SURGERY (BDS-GESU-301)**

Time: 3 hrs. Max

Marks: 80

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt PART-A and PART-B in the separate answer sheets.

#### PART-A

- Q.1 Multiple choice questions:
  - a) Interpret which one of the following statements is correct:
    - i) Both facial and trigeminal nerves are purely motor nerve.
    - ii) Interictal numbness is an important feature in 7<sup>th</sup> nerve palsy.
    - iii) Unilateral LMN palsy of 7<sup>th</sup> nerve gives rise to bilateral symptoms and signs.
    - iv) Bilateral trigeminal nerve palsy in a young person could be a sign of multiple sclerosis.
  - b) Label malignant tumour with any one of the correct choices below:
    - i) It has got a very sharply defined edge.
    - ii) It never gives rise to the cauliflower appearance.
    - iii) They can re-programme the energy metabolism (Warburg effect).
    - iv) This does not have any variation in its normal mitotic activity.
  - c) Choose anyone of the correct statements out of the following:
    - i) Double chin appearance is seen in Ludwig's angina.
    - ii) A thyroid swelling in the neck moves both with deglutition and protrusion of the tongue.
    - iii) Papillary carcinoma is never associated with a thyroglossal cyst.
    - iv) Dermoid cyst is a brilliantly trans-illuminant cyst.
  - d) Interpret which of the following is false:
    - i) Cystic hygroma is most common in the posterior triangle of the neck.
    - ii) MRI provides the best soft tissue detail in cystic hygroma.

- iii) It is always possible to excise the cystic hygroma completely without any recurrence later on.
- iv) Cystic hygroma can be diagnosed in fetus with the help of ultrasound.
- e) Relate the disease with the correct pathologic organism:
  - i) Gas gangrene is caused by the gram-positive organism Clostridium tetani.
  - ii) Gas gangrene later on gets complicated with HIV.
  - iii) Gas gangrene is primarily caused by the gram-positive organism Clostridium perfringens.
  - iv) Cl Perfringenceinfection is a very mild infection with good prognosis. **1x5**
- Q.2 Write short notes on the following:
  - a) Outline the aetiology, clinical features and management of anaphylaxis.
  - b) Categorize the TNM classification of squamous cell carcinoma in head and neck cancers.
  - c) Classify lateral neck swellings. Enumerate the clinical features, diagnosis and management of a Branchial cyst.
  - d) Outline the divisions and boundaries of the anterior triangle of neck. Describe the contents of the Carotid triangle.
  - e) Classify different odontogenic cysts. Enumerate the aetiology, clinical features and management of a Dentigerous cyst. **5x5**
- Q.3 Classify different types of shock. Enumerate the clinical features of different types of hemorrhagic shock in a tabular form, and how you will manage of a hemorrhagic shock.

#### 10 *PART-B*

- Q.4 Multiple choice questions:
  - a) Tubercular abscess is identified by all of the following except:
    - i) Acute inflammation along with severe tenderness.
    - ii) Collar stud abscess.
    - iii) Absence of acute features of inflammation.
    - iv) Sinus formation as an end result in untreated cases.
  - b) Neurogenic shock is not identified by:
    - i) Pale and cool skin.
    - ii) Tachycardia with features of shock.
    - iii) Bradycardia with features of shock.
    - iv) Decreased urine output.
  - c) Example of Tetanus prone wound is:
    - i) Age of the wound greater than 6 hrs.

- ii) Depth of the wound greater than 1mm.
- iii) Presence of devitalized ischemic tissue, and infection.
- iv) All of the above.
- d) Diagnosis of a Rodent ulcer is established by:
  - i) 90% are seen on the face above a line from the lobe of the ear to the corner of the mouth.
  - ii) This is a slow growing, locally invasive malignant tumour.
  - iii) Managed with complete excision by Moh's micrographic surgery.
  - iv) All of the above.
- e) Example of Waldeyer's ring is/are:
  - i) All the tonsils in the neck region.
  - ii) Outer ring of lymph nodes around the neck.
  - iii) These are the lymphatic stations in the region of the neck.
  - iv) All of the above.

1x5

- Q.5 Write short notes on the following:
  - a) Categorize different types of gangrene. Write what you know about gas gangrene.
  - b) Outline the differences between a hypertrophic scar and a keloid in a tabular form.
  - c) Describe the pathophysiology and clinical features of the favorable and unfavorable fractures of the angle of the mandible.
  - d) Outline the differentiating features between CSF rhinorrhea and nasal secretion.
  - e) Summarize what you know about oral submucosal fibrosis. **5x5**
- Q.6 Classify Le-Forte fractures with detailed tracing of the fracture lines. Describe the aetiology, clinical features, diagnosis and management of the Le forte II fracture.

### Bachelor of Dental Surgery – Second Year

### **GENERAL MICROBIOLOGY (BDS-MBIO-201)**

Time: Marks:							Max			
		No	o. of pages: 2							
Note:	ulletQ	ues	tion Paper has <b>TWO</b> parts: <b>PART-A</b> a	and PAI	RT-B.	Marks are indicated against each qu	estion.			
•	) /	4// q	uestions are compulsory. Draw the	diagran	ns whe	ere ever necessary.				
•	A	tten	npt <b>PART-A</b> and <b>PART-B</b> in the sepa	arate an	swer si	heets.				
			<u>P.</u>	ART-	<u>4</u>					
Q.1	Mu	ıltipl	le choice questions:							
	a)	Ве	st method of Sterilisation of LJ medi	um	[L1, CO2]					
		i)	121 C at 10 min, 15 lb. pressure							
		ii)	75-85° C for 1 hour for 3 consecutiv	e days						
		iii)	ETO							
		iv)	Sodium hypochlorite							
	b)		What is the structure that is found in gram-positive but not in gram-negative bacteria? [L2, CO1]							
		i)	Teichoic acid	ii)	Peptid	doglycan layer				
		iii)	Cell membrane	iv)	Nucle	oid				
	c)	The absence of all forms of microbial life, including spores, is known as? [L1, CO2]								
		i)	Decontamination	ii)	Disinfe	ection				
		iii)	Sterility		iv)	Asepsis				
	d)		nich is the Immunoglobulin that ca wborn?	n cross	the p	placenta and provide passive immu [L1, CO3]	nity to			
		i)	IgM		ii)	IgG				
		iii)	IgA		iv)	IgE				
	e)	W	hich of the following cells is invol	ved in	cell-m	nediated immunity?				

[L2, CO3]

		I)	I -ceiis	11)	B-cells					
		iii)	Mast cells  1x5		iv)	Both T and B cells				
Q.2	An	swe	r the following in briefly:							
	b) c) d)	Dra Im De CO Cla	swer with examples and diagrams? bulate the difference between endoto aw the structure of an Immunoglobumunoglobulins and how will you diffefine 'immunity'. Differentiate betweer [3]	oxins an ulin and erentiate n Active	d exoto: label it them? and Pa	- · · -				
Q.3			ate and create a flow chart for the ster ilisation. Support your answer with di			ds. Describe in detail the moist heat method [L6, CO4] <b>10</b>				
Q.4	Mı	ıltinl		ART-	<u>B</u>					
Q. 1	Multiple choice questions:  a) The bacteria involved in the production of dental caries is/are:									
	a)	111	e bacteria irivolved iri trie production	or dend	ai Cailes	[L1, CO1]				
		i)	Streptococcus mutans	ii)	S sang	uis				
		iii)	Both i) and ii)		iv)	Streptococcus pyogenes				
	b)	Wł i)	nich among the following is responsib HSV	le for h	epatoce	llular carcinoma?[L1, CO2] ii) HIV				
		iii)	HBV			iv) HAV				
	c)	Μ.	avium intracellulare complex:			[L1, CO3]				
		i)	photochromogen		ii)	Non-photochromogen				
		iii)	Scotochromogen		iv)	Rapid growers				
	d) Dogs are the source of human infection by each of the following parasites: [I									
		i)	Echinococcus granulosus	ii)	Taenia	solium				
		iii)	Plasmodium		iv)	Entamoeba histolytica				
	e)	e) Name the true yeast which is responsible for fungal meningitis:								

[L2, CO5]
-----------

i) H. capsulatum

ii) C. albicans

iii) C. neoformans

iv) Blastomyces dermatitidis

1x5

- Q.5 Answer the following in briefly:
  - a) Tabulate the difference between pathogenic and nonpathogenic Staphylococcus. [L5, CO2]
  - b) Briefly write the laboratory diagnosis of HIV infection.

[L3, CO3]

c) Describe the laboratory diagnosis of pulmonary tuberculosis.

[L3, CO4]

- d) Describe the life cycle of Plasmodium falciparum. Justify your answer with a diagram and label them. [L1, CO5]
- e) Describe in detail candidiasis. Add a note on its laboratory diagnosis. [L2, CO3] 5x5
- Q.6 Define 'meningitis' and list out the etiological agents and describe in detail the laboratory diagnosis of Meningococcal meningitis. Tabulate the difference between Pyogenic and Aseptic meningitis. [L6, CO5] **10**

Bachelor of Dental Surgery – Third Year

# ORAL PATHOLOGY, MICROBIOLOGY AND FORENSIC ODONTOLOGY (BDS-ORPA-301)

Time: Marks		S.					Max			
		No. of pages: 2								
Note:	• Q	uestion Paper has 1	TWO parts: PAR	T-A and PA	RT-B.	Marks are indicated against	each question.			
	• /	All questions are <b>co</b>	<b>mpulsory.</b> Draw	the diagra	ms whe	ere ever necessary.				
	• A	tempt <b>PART-A</b> and	d <b>PART-B</b> in the	separate ai	nswer s	heets.				
				PART-	<u>A</u>					
Q.1	Mι	Multiple choice questions:								
	a)	"Wickhams striae" are characteristic clinical features of:								
		i) Llichen planus			ii)	Leukoplakia				
		iii) Pemphigus			iv)	Pemphigoid				
	b)	Failure of tuberculum impar to retract before the failure of lateral halves of the tongue causes:								
		i) Geographic tor	ngue							
		ii) Cleft tongue								
		iii) Ankyloglossia								
		iv) Median rhombo	oid glossitis							
	c)	Blue sclera is a fea	ture seen in:							
		i) Osteosarcoma		ii)	Osteo	myelitis				
		iii) Osteogenesis i	mperfecta	iv)	Osteo	radionecrosis				
	d)	Atrophy of pharyngeal and gastric mucosa with koilonychia and predisposition to oral carcinoma is seen in:								
		i) Sturge Weber	syndrome	ii)	Rams	ay hunt syndrome				
		iii) Ascher's syndro	ome	iv)	Plumi	mer Vinson syndrome				
	e)	Tooth that is more	susceptible to de	ental caries	is:					

ii) Mandibular 2<sup>nd</sup> molar

i) Mandibular 1<sup>ST</sup> molar

		iii)	Maxillary canine	iv)	Maxilla	ary 2 <sup>nd</sup> premolar	1x5
Q.2	a)	Tri	short notes on the following: igeminal neuralgia. ogren's Syndrome.				
	c) d)	Re Ap	sidual cyst. thus ulcer. al manifestations of Pernicious anemia.				5x5
Q.3		issif spla	ry fibro osseous lesions of oral cavity. Explain sia. 1	0	ical and	l histopathologic fe	eatures of Fibrou
Q.4	Mι	ıltip	le choice questions:				
	a)	Th	e most common benign tumor occurring in th	ne oral (	cavity.		
		i)	Papilloma		ii)	Adenoma	
		iii)	Fibroma		iv)	Hemangioma	
	b)	He i)	eck's disease is caused by: Herpes Simplex	ii)	Humar	n papilloma	
		iii)	varicella zoster	iv)	Epsteir	n Barr	
	c)	Wł	hich amongst the following drugs are capable	of induc	ing ging	givitis either directl	ly or systemically
		i)	Acyclovir		ii)	Dilantin	
		iii)	Diclofenac	iv)	Ampici	llin	
	d)		nich amongst the following histological variagessive clinically?	ants of	amelob	olastoma is consid	lered to be mos
		i)	Basal cell		ii)	Granular cell	
		iii)	Desmoplastic	iv)	Acanth	nomatous	
	e)	Mι	ucocele is not a true cyst because:				
		i)	It is lined by epithelium				
		ii)	Its lumen is filled by Pus				
		iii)	It occurs as a result of trauma				
		iv)	it is not lined by epithelium				1x5

Q.5

Write short notes on the following:

- a) TNM Classification.
- b) Histopathological picture of Pleomorphic adenoma.
- c) Oral manifestation of AIDS.
- d) Bite Marks.
- e) Attrition, Abrasion and Abfraction.

5x5

Q.6 Classify Odontogenic Cysts. Mention the possible sources of epithelium for the formation of odontogenic cysts. Discuss the clinical features, radiographic featurs and histopathologic features of dentigerous cyst.

10

#### Bachelor of Dental Surgery – Second Year

## **FORENSIC ODONTOLOGY (BDS-ORPA-OE-001)**

Time: 3 h Marks: <b>8</b> 0						Max	
	No	o. of pages: 2					
Note:	Ques	tion Paper has <b>TWO</b> parts: <b>PART-A</b> a	and PAI	<b>RT-B.</b> /	Marks ar	re indicated against each question.	
•	All q	uestions are compulsory. Draw the	diagran	ns whei	re ever i	necessary.	
• /	4 <i>tten</i>	npt <b>PART-A</b> and <b>PART-B</b> in the sepa	nrate an	swer st	neets.		
		<u>P.</u>	ART-	<u>4</u>			
Q.1 M	ultipl	le choice questions:					
a)	De	ntal formula for primary set of humar	n dentiti	ion is:			
	i)	2102/2102		ii)	2012/2	2012	
	iii)	2123/2123		iv)	1223/1	.223	
b)	b) Which of the following adult bone is useful in determining sex of an individual?						
	i)	Skull			ii)	Femur	
	iii)	Clavicle			iv)	Pelvis	
c)	Fo	rensic Odontology is a branch of forer	nsic scie	ence tha	at deals	with:	
	i)	Finger prints		ii)	Bone s	tudy	
	iii)	Teeth and Bite-marks	iv)	Dead F	People		
d)	) Wh	nich method is used for Chronological	age est	timation	1?		
	i)	Radiographic method	ii)	Visual	method		
	iii)	Histological method	iv)	All of t	he Abov	ve	
e)	) Wh	nich component of the Teeth is the ha	ırdest s	ubstanc	e in the	Human body?	
	i)	Enamel		ii)	Dentin	e	
	iii)	Pulp			iv)	Cementum	
		1x5					

- Q.2 Write short notes on the following:
  - a) Dental age and Chronological age.
  - b) Maintenance of Dental records.

	,		lontometrics. gnificance of DNA in forensic investigation.					5x5	
Q.3			be the methodology involved in identification ass disaster. <b>1</b>	.0	an rema	ains and	l manage v	victim ide	ntification
Q.4	Mι	ıltip	le choice questions:						
	a)	In	a Mass disaster, identification of a victim cou	uld be a	chieved	d on the	basis of:		
		i)	Ante mortem dental records						
		ii)	Fingerprints						
		iii)	Photographs						
		iv)	All of the above						
b		Bit i)	e marks help in personal identification using Saliva	all mer	ntioned	evideno ii)	ces except Lip print		
		iii)	Teeth marks		iv)	DNA			
	c)	Κv	aal Radiographic method of age estimation is	s based	on indi	rect me	easuremer	nt of:	
		i)	Primary dentine		ii)	Secon	dary dent	ine	
		iii)	Tertiary dentine		iv)	All of	the above		
	d)	Wł	nich one is not a type of a bite-mark evidence	e?					
		i)	Hemorrhage		ii)	Contu	sion		
		iii)	Incision			iv)	Bleeding	gums	
	e)	Wł	nich method is used to estimate age by teeth	after 2	21years	of age	?		
		i)	Schour and Massler	ii)	Gusta	gson m	ethod		
		iii)	Harris method	iv)	Kazmi	metho	d	1x5	
Q.5	Wr	rite	short notes on the following:						
	a)	Ra	diographic methods of age estimation.						
	b)	Bit	e marks in forensics.						
	c)	Κv	aal method of age estimation.						
	d)	Ro	le of Palatal Rugae in forensics.						
	e)	De	scribe Tongue point's role in forensics.						5x5

c) Medico legal cases and liability.

Q.6 Determine roles and responsibilities of a forensic odontologist.

#### **Annual Examination, August 2022**

Bachelor of Dental Surgery – Third Year

#### ETHICS (BDS-PHDE-OE-001)

Time: Marks:						Max
	/	Vo.	of pages: 2			
Note:	$ullet$ $Q_i$	ues	tion Paper has TWO parts: PART-A and PART-B. Marks are	e india	cated ag	gainst each question.
•	) /	1// q	uestions are <b>compulsory.</b> Draw the diagrams where ever i	necessa	ary.	
•	At	ten	npt PART-A and PART-B in the separate answer sheets.			
			<u>PART-A</u>			
Q.1	Mu	ltipl	e choice questions:			
	a)	Rat	tionale ways of approaching ethical issues is:			
		i)	Obedience	ii)	Intuiti	on
		iii)	Consequentialism	iv)	Desire	
	b)		is known for their longstanding egalitarian	nism.		
		i)	Sweden		ii)	USA
		iii)	United Kingdom	iv)	India	
	c)	Fee	e splitting and advertising is forbidden in codes of ethics suc	ch as th	e.	
		i)	American Dental association Principles of Ethics and Code of	of Profe	essional	conduct.
		ii)	Canadian Dental Association Code of Ethics.			
		iii)	International Principles of Ethics for the Dental Profession.			
		iv)	All of the above.			
	d)	Ма	cro ethics principle guide the conduct of:			
		i)	Patients			
		ii)	Population Based Research			
		iii)	Professional Colleagues			
		iv)	Society			

i) not doing wrong. Dentists and dental researchers are to avoid inflicting harm on patients.

e) Plagiarism literally means:

		ii)	a good quality in people, especially in their charact	er and	behavio	ur.
		iii)	a form of dishonest behaviour whereby a person co	opies th	e work	of someone else.
		iv)	fair treatment of individuals and groups.			1x5
Q.2	Wr	ite :	short notes on the following:			
	a) b)		ef on global view of health. pethics.			
	c)	Ra	tionale approaches of ethical issues.			
	•		cial value in ethics. fine 'ethics' with examples.			6x5
Q.3	Wł	no d	lecide, what is ethical? Does dental ethics change? [	Discuss	in detail	
			<u>PART-B</u>			15
Q.4	Mu	ıltipl	le choice questions:			
	a)		nich of the following are not the fundamental princ de?	ciples th	at form	the foundation of the ADA
		i)	Patient Autonomy		ii)	Non-maleficence
		iii)	Advertising		iv)	Veracity
	b)	Do i)	octor-Patient relationship models are: Guide model		ii)	Agent model
		iii)	Commercial model	iv)	Interac	ctive model
	c)	AC	D stands for			
		i)	Act Communicate Dentist			
		ii)	Asses Communicate Decide			
		iii)	Assess Consequentialism Decide.			
		iv)	Attrition Compare Decide			
	d)	Ма	acro ethics principle guide the conduct of:			
		i)	Patients			
		ii)	Population Based Research			
		iii)	Professional Colleagues			
		iv)	Society			
	e)	Со	nfidentiality is also important because a person dese	erves.		

i) to be secretive

ii) Respect

iii) to look forward

iv) autonomy

1x5

- Q.5 Write short answers of the following:
  - a) How communication and consent is important for a good dentist and patient relationship?
  - b) Does dental ethics differ from one country to another?
  - c) International Principles of Ethics for the Dental Profession states.
  - d) Discuss about the decision making for incompetent patients.
  - e) Three sources of confidentiality.

6x5

Q.6 Discuss FDI World Dental Federation International Principles of ethics for the dental profession.

## **Annual Examination, August 2022**

Bachelor of Dental Surgery – Second Year

#### **DENTAL MATERIALS (BDS-PROS-201)**

Time: Marks:		-					Max			
		No	o. of pages: 2							
Note:	• 6	Quest	tion Paper has <b>TWO</b> parts: <b>PART-A</b> d	and <b>PA</b>	<b>RT-B.</b> Marks are	indicated against e	ach question.			
•	All questions are compulsory. Draw the diagrams where ever necessary.									
•	A	lttem	npt PART-A and PART-B in the sepa	arate ar	nswer sheets.					
			<u>P</u>	ART-	<u>A</u>					
Q.1	Μι	ultiple	e choice questions:							
	a)	Clir	patient reports with pain on masticat nical examination reveals a protruded ccussion. What could be the reason b	d and p	erforated amalga	=				
						[L3, CO4]				
		i)	Mercuroscopic Expansion	ii)	Delayed Expans	ion				
		iii)	Shrinkage of the alloy	iv)	Primary expans	on				
	b)	-	patient got a cast restoration in a momplete. What could be the possible							
		i)	Poorly adjusted torch flame							
		ii)	Premature solidification							
		iii)	Entrapment of gas during solidificati	on						
		iv)	Incomplete elimination of wax reside	ues fror	m the mold.					
	c)		eversible strain behavior that occurs ocated within the material, resulting i		•					
		i)	Plastic flow		ii) Elastic re	ecovery				
		iii)	Viscoelastic deformation	iv)	Elastic deforma	tion				
	d)	Wh	ich impression material is most likely	to rem	nain accurate eve	n after one week?	[L1 CO4]			

Alginate

ii)

i) Condensation silicone

		iii)	Addition silicone		iv)	Agar-A	gar	
	e)	Res	storative material with coefficient of th	ermal	expansi	on clos	est to dentine is:	[L1 CO2]
		i)	Glass Ionomer Cement	ii)	Compo	site Re	sin	
		iii)	Silver Amalgam  1x5		iv)	Ceram	ic	
Q.2	Wr	rite s	short notes on the following:					
	a) b) c) d)	Hor Act Lar Sol	w will you manage a case of accidenta ivator-Initiator system in composite re minate technique. dering flux. tamerism.		ury spill		ental clinic? [L2C [L1 CO2] [L1 CO3] [L1 CO4] 1 CO1] <b>5x5</b>	04]
Q.3			y impression materials. Compare compition silicone and polyether impression		-	-	ion, advantages and [L1 CO1] <b>10</b>	disadvantages
			<u>P4</u>	I <i>RT-I</i>	<u>8</u>			
Q.4	Mι	ultipl	e choice questions:					
	a)	C f	actor is of most significance in which o	of the f	ollowing	g cavitie	es:	
							[L2 CO4]	
		i)	Class I	ii)	Class I	I		
		iii)	Class III		iv)	Class I	V	
	b)	Cas i)	sting shrinkage of base metal alloys is: Less than cast gold alloys	:			[L1 CO2]	
		ii)	More than cast gold alloys					
		iii)	Equal to cast gold alloys					
		iv)	Do not shrink at all.					
	c)		nich of the following waxes is the m dges? Blue Inlay wax	ost su	itable f	or mak ii)	ing wax patterns fo [L2 CO3] Alu wax	or crowns and
		iii)	Modelling wax			iv)	Sticky wax	
	d)	Wh	nich dental cement is the most compat	ible to	pulp?		[L2 CO2]	
		i)	Zinc polycarboxylate			ii)	Zinc phosphate	

	iii) Glass Ionomer Cement	iv)	Zinc o	xide eugei	nol	
	e) Loss of water from Alginate to the environment is k	nown as:				
			[L1	CO1]		
	i) Imbibition		ii)	Creep		
	iii) Syneresis  1x5		iv)	Evaporat	ion	
Q.5	Write short notes on the following:					
	a) Putty wash impression technique.		[L2	CO4]		
	b) Cohesive and Non Cohesive gold.		[L1	CO1]		
	c) How do you restore a carious posterior tooth in a d	ental camp	o?			
			[L3	CO4]		
	d) Discuss the role of corrosion in a dental amalgam re	estoration.				
			[L2	CO2]		
	e) Composition and properties of Inlay Casting Wax.		[L1	CO1]	5x5	
Q.6	Classify 'Investment materials'. Write their compositions compensate casting shrinkage in dentistry.	ion and a	pplicatio	on. Discus	s briefly	how we
			[L2 CO2	2] <b>10</b>		

#### **Annual Examination, August 2022**

## Bachelor of Dental Surgery – Second Year

#### **RESEARCH INNOVATION CATALYST (BDS-RIC-201)**

Time: : Marks:		S.					Max			
		No	o. of pages: 2							
Note:	ullet Q	uesi	tion Paper has <b>TWO</b> parts: <b>PART-A</b> a	and PA	RT-B.	Marks a	re indicated against each question.			
•	All questions are compulsory. Draw the diagrams where ever necessary.									
•	At	ten	npt <b>PART-A</b> and <b>PART-B</b> in the sepa	arate ar	nswer s	sheets.				
			<u>P</u>	ART-	<u>A</u>					
Q.1	Mu	ltipl	e choice questions:							
a) In India, IPRs can be protected and monopolized under the provisions of different Acts, main										
		i)	The Patent Act	ii)	The T	rade Ma	ark Act, 1999			
		iii)	The Designs Act 2000	iv)	All of	the abo	ve			
	b)	Wh	ich is a product innovation?							
		i)	Powered Toothbrush							
		ii)	Taxi Hailing Application							
		iii)	Electronic Medical Records							
		iv)	Use of AI in Patient Flow in OPD							
	c)	An	invention according to Indian Patent	Act me	eans:					
		i)	Novelty			ii)	Innovation			
		iii)	Usefulness		iv)	All of	the above			
	d)	All	of the following are databases excep	t:						
		i)	Wikipedia			ii)	Google Scholar			
		iii)	EMBASE			iv)	MEDLINE			
	e)	All	are reference management software	except						
		i)	Harvard			ii)	EndNote			
		iii)	Mendeley			iv)	Zotero			

1x5

Q.2	Wr	Write short notes on the following:										
	b) c) d)	Im Va So So	olean Operators. sportance of Referencing. ncouver Style. oping Review. urces of Literature. x5									
Q.3	Wł	nat i	s the full form of IPR? Describe in detail regar	_	e ACT a	and its	effects on innovation in India					
0.4	Mi	ultin	PART-	<u>B</u>								
Q.4		Multiple choice questions:										
	a) Why should an IP be protected?  i) IP is an assets and can be used by the owner for commercial gains.											
	i) IP is an assets and can be used by the owner for commercial gains.											
		II)	IP owner can stop others from manufacturing protected by the IP owner.	ig and s	selling p	oroduct	s and services which are dully					
		iii)	IP owner can sell and/or license the IP for o	comme	rcial ga	ins.						
		iv)	All of the above.									
	b)	Th i)	e three main Boolean: AND OR YES		ii)	AND	OR NOT					
		iii)	AND IF NOT		iv)	AND	YES NO					
	c)	All	are printed sources of literature except:									
		i)	Pubmed			ii)	Newspapers					
		iii)	Books			iv)	Banners					
	d)	All	of the following are types of reviews except	• •								
		i)	Argumentative Review	ii)	Syste	matic F	Review					
		iii)	Verbal Review		iv)	Scop	ing Review					
	e)	WI	nich Ministry Grants patents for Healthcare D	evices?	1							
		i)	Ministry of Health and Family Welfare.									
		ii)	Ministry of Commerce and Industry.									
		iii)	Ministry of Labour.									

iv)	Ministry of Defence
	1x5

- Q.5 Write short notes on the following:
  - a) Standard Deviation.
  - b) Harvard Style.
  - c) Steps in Systematic Review.
  - d) Patents and Copyrights.
  - e) Types of Literature Review.

5x5

Q.6 What are 'Data Bases' in Scientific Literatures?

#### **Annual Examination, August 2022**

#### Bachelor of Dental Surgery – Third Year

#### **RESEARCH INNOVATION CATALYST (BDS-RIC-301)**

Time: : Marks:		S.						Max
		No	o. of pages: 2					
Note:	ullet Q	uesi	tion Paper has <b>TWO</b> parts: <b>PART-A</b> a	and <b>PA</b>	RT-B. /	Marks ar	e indicated against each	question.
•	) /	1// q	uestions are compulsory. Draw the	diagran	ns whei	re ever i	necessary.	
•	Ai	ten	npt <b>PART-A</b> and <b>PART-B</b> in the sepa	arate an	swer st	neets.		
			<u>P.</u>	ART-	<u>4</u>			
Q.1	Mu	ltipl	e choice questions:					
	a)	Cas	se-Control Study is a type of:					
		i)	Analytical Study		ii)	Descrip	otive Study	
		iii)	Experimental Study					
	b) Case Reports can be generalized beyond the presented case also:							
		i)	True			ii)	False	
	c)	Brι	shing Technique for Children is:					
		i)	Modified Bass		ii)	Bass		
		iii)	Stillman's			iv)	Fones	
	d)	All	are Study designs in RCT except:					
		i)	Before and After Trials	ii)	Concu	rrent Pa	rallel	
		iii)	Cross-overver Trial	iv)	Factor	ial Desig	ŋn	
	e)	No	n-Parametric equivalent of Pearson's	Correla	tion Co	efficient	is:	
		i)	Schaffe's Test		ii)	Tukey'	s Test	
		iii)	Spearman's Test		iv)	Mann-\	Whitney U test 1x5	
Q.2	Wr	ite s	short notes on the following:					

a) Chi-square test.

c) Parametric Tests.

b) History of Presenting illness in case of Pain.

5x5							
Q.3	Desi child	gn a study to analyze the long-term effect of o lren. PART-1			sity on '	the oral health of	a group of
Q.4	Mult	iple choice questions:					
	a) I	imparting Oral health education is a type of:					
	i	) Tertiary Prevention		ii)	Prima	ry Prevention	
	i	ii) Secondary Prevention		iv)	Primo	dial Prevention	
	•	Curve with many peaks is that of a ) Point source Epidemic		ii)	Propa	gated Epidemic	
	c) A	Application of Pit and Fissure sealant is:					
	i	) Primary prevention		ii)	Secor	dary Prevention	
	d) \	Which of the following is not a Principle of Expe	eriment	al Desig	gn?		
	į	) Principle of Replication					
	i	i) Principle of Randomization					
	i	ii) Principle of Local Control					
	i	v) Principle of Blinding					
	e) <b>1</b>	Methods to achieve double blinding are:					
	į	) Matching			ii)	Masking	
	i	ii) Allocation Concealment	iv)	All of	the abo	ove	1x5
Q.5	Writ	e short notes on the following:					
	a) §	Study designs in RCT.					
	b) I	Importance of Medical History.					
	c) [	Define Evidence Based Dentistry. Enumerate th	e steps	s in EBC	).		
	d) E	Epidemic Curve.					
	e) <i>A</i>	ANOVA 5x5					

d) General Principles of Photography in Dentistry.

e) Computers in Statistics.

Q.6

Steps in writing a Case Report. 10

#### **Annual Examination, Dec. 2022**

Bachelor of Dental Surgery – First Year

# BIOCHEMISTRY, NUTRITION AND DIETETICS (BDS-BIOC-101)

Time: Marks	_	_					Max
		No	o. of pages: 2				
Note:	• Q	oues	tion Paper has <b>TWO</b> parts: <b>PART-A</b> and <b>PART-B.</b> I	Marks ai	re indi	cated a	gainst each question
		4// q	questions are <b>compulsory.</b> Draw the diagrams whe	re ever	necessa	ary.	
	A	tten	mpt <b>PART-A</b> and <b>PART-B</b> in the separate answer si	heets.			
			<u>PART-A</u>				
Q.1	Mι	ıltip	le choice questions:				
	a)	W	hich of the following is mono saccharides?				
		i)	Galactose.		ii)	Glycog	gen.
		iii)	Sucrose.			iv)	None of the above
	b)	Wł	nat is the biosynthetic source of all steroid hormones	s?			
		i)	Cholesterol.		ii)	Ketone	ebodies.
		iii)	Carbohydrate.		iv)	Proteir	n.
	c)	Pro	ostate tumor marker enzyme is:				
		i)	AST			ii)	ALT
		iii)	ACP			iv)	GGT
	d)	Wł	nich of the following is a common compound shared	by the	TCA cy	cle and	the Urea cycle?
		i)	a-Keto glutarate.		ii)	Succin	yl co A.
		iii)	Oxalo acetate.	iv)	Fumar	ate.	
	e)	Wł	nich of the following amino acids has to be supplement	ented ir	the die	et?	
		i)	Phenylalanine.	ii)	Cystei	ne.	
		iii)	Glutamine.		iv)	Aspara	agine.

1x5

Q.2	Wr	ite short notes on the following:			
	b) c) d)	Significance of HMP Shunt. Biologically active compounds of Glycine. Phenylketonuria. Competitive and Non competitive inhibition. Calcium regulation.  5x5			
Q.3	Dis	scuss urea cycle and significance of blood urea. Add a note on	Ammoi	nia Tox	icity. <b>10</b>
0.4	Mı	Itiple choice questions:			
Q.4			sical ma	n ifocto	tion is not observed?
	a)	In a child suffering from marasmus which of the following clir	IICal IIId	annesta	ition is not observed?
		i) Watery diarrhea with acid stools.			
		ii) Subnormal temperature.			
		iii) Hyperglycemia and ketoacidosis.			
		iv) Generalized edema.			
	b)	Which of the following has the highest biological value? i) Egg.		ii)	Potato.
		iii) Corn oil.		iv)	Mango.
	c)	Buffers are mixtures of:			
		i) Strong acid and strong base.			
		ii) Strong acid and weak base.			
		iii) Weak acid and their conjugate base.			
		iv) Weak base and their conjugate acid.			
	d)	What test is most accurate in diagnosing long term sugar level	el?		
		i) HbAIC.	ii)	Rand	lom blood sugar.
		iii) F. Blood sugar.	iv)	GTT.	
	e)	Muscle does not release glucose to blood stream due to the a	bsence	e of enz	yme.
		i) Glycogen synthase.			
		ii) Glucose-6-phosphatase.			

- iii) Glu-6-phosphate dehydrogenase.
- iv) Glycogen phosphorylase.

1x5

- Q.5 Write short notes on the following:
  - a) Balance diet and role of dietary fibres.
  - b) BMR.
  - c) Steps of beta-oxidation of palmitic acid and tests to identify.
  - d) Types of Jaundice.
  - e) Types of blood buffer.

5x5

Q.6 Describe the sources, biochemical functions and deficiency manifestations of Vitamin D.

## **Annual Examination, Dec. 2022**

## Bachelor of Dental Surgery – First Year FRENCH (BDS-CDC-OE-001)

Time: 3 hi Marks: <b>10</b>			Max
Marks. 10	.0		No.
pages: 6 Note: All o	questions are <b>comp</b> i	ulsory. Marks are indicated against each g	uestion.
11000171110	questions are <b>comps</b>	SECTION A	
		Compréhension Écrite	
-	ez le texte et répo ead the text and a	ndez nswer the following questions) :	
Mr pa Il o	me. Dubois est actricauvres (the poor and lest beau et souriant.	s un hôpital. Il est médecin. Il est sympath ce. Elle joue bien ses rôles. Elle est belle needy). Paul, le fils de M.et Mme Dubois es Sa sœur Christelle est journaliste. Elle trav aucoup. Elle est vive et active.	et gentille. Elle aide les t pilote. Il conduit l'avion
a) <b>Ré</b>	pondez aux questi 2	ons (Answer the questions) :	
vi.)	<del>_</del>	ession de Mme Dubois ?	
vii.)	Décrivez la sœur (	de Paul ?	
,	ouvez le contraire ond the opposite from Antipathique -		3
ii.)	Laide		
iii.)	Riches	· · · · · · · · · · · · · · · · · · ·	
•	mplétez avec un m omplete with a wo M. Dubois		5
ii.)	Ma mère est		
iii.)		conduit l'avion.	
iv.)	Les enfants	dans le jardin.	

v.) La journaliste travaille dans une \_\_\_\_\_\_.

of

#### SECTION-B Expression Écrite

Q.2	Décrivez votre journée ou décrivez votre famille. (Describe your daily routine or describe your family)	10
	SECTION-C Grammaire	
Q.3	Mettez au pluriel (write in plural):	5
	f) Je regarde la télévision.	
	g) Il a une fleur rouge.	
	h) Elle est grande.	

	i) J'aime la chanson	•	
	j) Je range la chamb	ore.	
Q.4	Mettez au feminine	e (write in feminin):	5
	f) Le père de Sophie	est Indien.	
	g) Le frère de Carolin	ne est intelligent.	
	h) Voici un petit garç	on anglais.	
	i) L'homme Indien e	st intelligent.	
	j) Le garçon est con	tent.	
Q.5	Complétez avec les	s adjectifspossessifs (mon,ma,notre,)	<del></del>
	5		
	(Complete us	sing possessive adjectives):	
	f) Tu aimes	professeur.	
	g) Ils parlent à	étudiants.	
	h) Elle parle à	amie.	
	i) Tu finis	devoirs.	
	j) Elles aiment	robes.	
Q.6	-	s articles defines – le, la, l', les	5
	(Complete using do		
	f) Je regarde		
	g) Nous allons à		
	h) Elle sont		
	i) J'ai li		
	j) Vous choisissez _	voiture verte.	
Q.7	Complétez avec les	s articles indefinis – un, une, des	
=	5		

	(Complete using indefinite articles):	
	a) stylos sont rouges.	
	b) J'ai cahier.	
	c) Nous avons biscuits.	
	d) Tu as copine française.	
	e) Tu ne fais pas devoirs.	
Q.8	Complétez avec les prépositions : (sur/dans/avec/de/contre/ à gauche de) (Complete using prepositions):	5
	f) L'amie Jacque est belle.	
	g) Le dessert est la table.	
	h) La glace est le frigo.	
	i) L'horloge est le mur.	
	j) Les fruits sont le frigo.	
Q.9	Quelle heure est-il ? (What time is it ?)  f) 9:30: g) 12 Noon: h) 7:15:	5  
	i) <b>00:00:</b> j) <b>4:45:</b>	
Q.10	• • • • • • • • • • • • • • • • • • •	5
	(Write the french adjective according to the noun):	
	f) Ma mère achète une robe. (Beautiful)	
	g) La rivière est très (Big/Tall)	
	h) Mes amis sont (Happy)	
	i) Heena est très fille. (Kind) j) Les stylos sont (Small)	
	), Les seylos sone (Smail)	
Q.11	Traduissez les expressions en anglais : (Translate the expressions in english)	5
	a) Il fait beau :	
	b) Il neige :	

	c) Il fait du soleil :	
	e) Il fait orageux :	
	f) Il fait chaud :	
0.40		_
Q.12	Quelle est leur profession?  (What is their profession?)	5
	f) Elle soigne les malades : Elle est	
	g) Elle travaille avec les ordinateurs (computers) : Elle est	
	h) Il repare un taxi : Il est	
	i) Elle écrit les romans(novels): Elle est	
	j) Elle fait un gateau : Elle est	_
Q.13	Mettez en ordre (Put in order):	5
<b>Q</b> 0		
	a) Je/au/cinéma/vais.	
	b) Le/est/stylo/chaise/sur/la.	
	c) Petits/chiens/sont/les.	
	d) Français/mon/pour/ J'étudie/examen/de.	
	<del></del>	
	e) Belle/une/porte/robe/blanche/elle.	
	<del></del>	
Q.14	Complétez avec les articles partitifs (Complete using definite articles):	6
	d) Nous buvons eau ou coca.	
	e) Elle prend pomme et raisins.	
	f) Il mange gâteau et Elle mange glace.	
- ·-		
Q.15	Conjuguez les verbes (Conjugate the verbs):	
	10	
	k) Nous (aimer) les fleurs.	
	l) Ils (aller) à l'école.	

	m)	) Vous (avoir) les livres français.	
	n)	Elle(être) Indienne.	
	o)	Il (faire) froid en hiver.	
	p)	Tu (nager) dans la piscine.	
	q)	Les filles (s'habiller) pour aller à la classe.	
	r)	Je (finir) l'exercice.	
	s)	Les étudiants (apprendre) les verbes au présent.	
	t)	Tu (s'amuser) avec tes amis le samedi soir ?	
		SECTION-D	
Q.16		omplétez les phrases: Complete the sentences)	5
	f)	est l'hymne national (national anthem) français.	
	g)	est le vin (wine) français.	
	h)	est la ville (city) de la France.	
	i)	est la monnaie (currency) unique européenne.	
	j)	est le fromage (cheese) français.	
Q.17	(Cł	ochez la bonne réponse: Choose the correct option) The colours of French flag are  i) Blue, white, red	4
	f)	ii) Orange, white, green iii) Yellow, white, red is the capital of the France. i) Lyon ii) Paris	
	g)	iii) Nice iii) Nice is a monument of France. i) La Tour Eiffel ii) Le Brie iii) Le Bordeaux	

- h) The currency of France is I'\_\_\_\_\_
  - i) Dollar ii) Franc iii) Euro

## Bachelor of Dental Surgery – First Year **SPANISH (BDS-CDC-OE-002)**

īme: L <b>00</b>	3 hrs. Max Marks:
	No. of pages: 6 All questions are <b>compulsory.</b> Marks are indicated against each question.
Q.1	Conjuga los verbos para com[ppletar la historia. Complete the verbs to complete the history. Mi rutina de los lunes por la mañana
	Mi nombre (ser) Julia, (ser) doctora
	Yo (trabajar) en un hospital. Hoy (ser) lunes. Por
	eso (yo, levantarse) a las 5:00 de la mañana, porque
	(tener) que ir a trabajar. Después de levantarme
	(yo, cepillarse) los dientes y tomo un café,a las 7:30 de la
	mañana, (ir) a correr, me gusta mucho hacer ejercicios
	Cuando yo (regresar) de correr, (yo
	desayunar) unas frutas y después(yo, ducharse)
	(yo, ponerse) el uniforme, cuando ya
	(yo, estar) lista, (yo, salir) para mi trabajo.
	Responde a las preguntas:
	a) ¿A qué hora se levanta Julia?
	b) ¿A qué hora desayuna Julia?
	c) ¿A qué hora sale Julia de su casa para correr?
	d) ¿Qué haces después de correr?

#### Q.2 Lee el texto y responde a las preguntas

#### Read the text and answer the questions

Mi familia

Mi familia es muy grande. Somos seis personas: mi abuelo, mi abuela, mi padre, mi madre, mi hermana y yo. También tenemos una mascota que se llama Tom, un perro. Yo me llamo Gustavo, soy mayor que mi hermana Elina, pero ella es más alta. Vamos juntos a la escuela en un coche. Yo tengo trece años y ella tiene once años. Mis padres se llaman Santiago y Marta. Vivimos en una casa muy bonita y muy grande. Mi padre es negociante y mi madre ama de casa. Por la mañana desayunamos junto, me gusta desayunar con mi familia. Después del colegio, mi madre prepara una comida deliciosa para todos. Por la tarde, mi madre queda con sus amigas y mi padre juega al tenis. Mi hermana y yo hacemos los deberes y después vemos la televisión. Los viernes por la tarde vamos al mercado para hacer la compra. Mi padre es alto y rubio, y mi madre es morena y delgada. A mi hermana le gusta nadar con sus amigas en la piscina. Yo me divierto mucho más jugando a los videojuegos en casa.

a, coaua personae na <b>,</b> en na na	
b) ¿Cuántos hermanos son?	
c) ¿Cómo es la casa de la familia?	
d) ¿A qué se dedica el padre?	
e) ¿Qué mascota tiene la familia?	

a) ¿Cuántas personas hay en la familia?

Q.3	Elige la opción correcta. Choose the correct option. a) i. Un coche ii. Una coche iii. Uno coche iv. Unas coches			
	b) i. Unas casos ii. Unas casas iii. Unos cacos iv. Uno casa			
	c) i. El perra ii. La perro iii. El pero iv. El perro			
	d) i. Las silas ii. Las cilas iii. Las sillas iv. Los sillas			
	e) i. La dia ii. Las dias iii. Lo día iv. El día			
	f) i. Un llave ii. La llave iii. El laves iv. Unos laves			
7	g) i. Una planta ii. Un planta iii. Las planta iv. Los plantes			
Q.4	Completa las oraciones con la conjugación del verbo ser o estar: Complete the sentences with the conjugation of ser or estar.			
	a) Miguelmuy delgado.			
	b) Ana y Juan en la casa de sus abuelos.			
	c) Ellosprofesores de universidad de Delhi.			
	d) La escuelaal lado de la iglesia.			
	e) Raquelestudiando.			
	f) Mis amigos y yo honestos.			
7	g) ¿Cómo tú hoy?			
Q.5	Escribe la hora: Write the time: a) 8:30 AM:			
	b) 10:50 PM:			
	c) 2:35 AM:			
	d) 1:13 AM:			

	e) 7:42 PM:		
5			
Q.6	Modify the sentence	siendo uso del presente continuo: es using present continuous. ->Ej: El tren está saliendo de la estación.	
	b) Ellos trabajan mucho> _		
	c) Javier prepara la comida:	>	
	d) Ella compra los billetes>		_
	e) Nosotros tomamos un café	>	4
Q.7	<b>5 5</b>	os en el espacio e the verbs in blanks (beber) leche?	
	b) Mis padres nunca	(estar) en Brasil.	
	c) Hoy mis amigos y yo	(venir) de la universidad de	
	Salamanca.		
	d) ¿Esta semana tú	(viajar) a Madrid?	
5	e) Ya	_ (comprar, yo) una camiseta para mi padre.	
Q.8	Traduce usando el verbo g	ustar	
	Translate using the aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa		
	b) We like ice creams. :		
	c) She likes to speak French.	:	
	d) He likes cars & bicycles. :		

	5		
	Completa las oraciones con los verbos		
	_	ne sentences. (poder) nadar.	
	b) ¿Ustedes	(querer) ir con nosotros?	
	c) Él	(decir) que le gusta jugar fútbol.	
	d) Nosotros	(soñar) con nuestra propia casa.	
	e) Yo	(sentir) que ellos son honestos.	
0	Escribe el articulo determinado que corresponde Write the definite article		
	(a)	rey es Juan Carlos.	
	(b)	reyes Magos son Gaspar, Melchor y Baltasa	
	(c)	chica se llama Estrella.	
	(d)	chicos están contentos.	
	(e)	profesora está furiosa.	
	(f)	alumnos no escuchan.	
1	Escribe 10 líneas Write 10 lin	sobre tu colegio. les about you college.	


10

Q.12 Describe las siguientes personas, escribe 2 líneas para cada persona. Describe the following people, write 2 lines on each.



6					
Q.13 Busca los errores y escribe las oraciones Find the errors and rewrite the sentences. a) Ella soy profesor de la escuela.					
	b) Yo hablamos francés	y quiero aprender alem	án.		
	c) Vosotros estamos en la clase.				
	d) Ellos están estuidantes.				
<b>4</b> Q.14	Conjuga los verbos				
	Conjugate the ve	T.	T-		
	Comprar	Ir	Tener		

## **Annual Examination, Dec. 2022**

#### Bachelor of Dental Surgery – First Year

#### FINANCIAL ACCOUNTING - (BDS-COM-OE-001)

Time: 3 l <b>100</b>	hrs. Max M	arks:
pages: 2	No.	of
pages. 2		
Note:	Question Paper has <b>TWO</b> parts: <b>PART-A</b> and <b>PART-B.</b> Marks are indicated age each question.	gainst
•	All questions are compulsory. Draw the diagrams where ever necessary.	
•	Attempt PART-A and PART-B in the separate answer sheets.	
	<u>PART-A</u>	
Q.1 A	Answer the following questions:	
a	a) As per Income Tax Act, accounting period is:	
	i) 12 Months starting from 1 <sup>st</sup> January to 31 <sup>st</sup> December.	
	ii) 12 Months starting from 1 <sup>st</sup> April to 31 <sup>st</sup> March.	
	iii) 12 Months starting from 1 <sup>st</sup> July to 31 <sup>st</sup> June.	
b	b) As per dual aspect concept Assets = Liabilities + Capital. ( <i>True/False</i> )	
c)	c) Accrual Concept is based on concept.	
	(Matching / Cost / Going Concer	n)
d	d) If total sales is Rs.5,00,000/- and credit sales is Rs 100000 find out cash sales.	
e	e) Cash discount is allowed to encourage quick or prompt payment. (True / False	·)
	[CO-1,2,3][L-1	l <b>,</b> 2]

Q.2

Answer the following questions:

	f) g) h) i)	What is Double Entry System? Define the 'three rules' of accounts.	-		[CO-1][L-1] [CO-2][L-2] [CO-2][L-1] [CO-3][L-3]
	JJ	<ul> <li>i) Dr. Royal started 'Royal Dental Clinic'</li> <li>ii) He purchased dental chair of Rs 1, 00</li> <li>iii) He paid Rs 15,000 electricity bill and R maintenance of clinic.</li> <li>iv) He withdraws Rs 50000 for personal v) He withdrawn Rs 10,000 cash from both control of the properties of t</li></ul>	0,000 for the ss 20,000 sa use from bu	e treatment of pational ending to assistant and	
Q.3		fferentiate between book keeping and according with their practical utilities.	ounting. Exp	•	conventions of -1,2] <b>20</b>
		PART-	<u>B</u>		
Q.4	Mι	ultiple choice questions:			
	a)	Final accounts can be prepared from Jour	rnal entries.		(True / False)
	b)	Depreciation is decline in the value of		(Capital / Land /	/ Fixed Assets)
	c)	Trial Balance serves as a summary of all	ledger acco	unts.	(True / False)
	d)	Balance sheet is prepared to know the	of the	e firm.	
		Loss)	Accuracy /	Financial Position	/ Profit and
	e)	Amount withdrawn for personal use is de	bited to	account.	
		Capital)		(Cash / Bank	/ Drawing /
		1×5			[CO-1,2][L-2]
Q.5	An	swer the following questions:			
	f) g)	What is Trial Balance? Why is it prepared Differentiate between capital and revenue		vith two examples.	[CO-3][L-2]

h) Royal Dental Care centre purchased dental chair of Rs.100000/- on 1<sup>st</sup> January 2020 and spend Rs 50000 on carriage. Calculate the amount of depreciation for two years

[CO2][L4]

69/6

i.e. 2020 and 2021, when rate of depreciation is 10% on the diminishing balance method. Books are closed on  $31^{st}$  December every year. [CO-3][L-5]

i) What is Cash Book? Draw the specimen of two column cash book.

[CO-3][L-2]

j) Differentiate between profit and non-profit organization with an example.

[CO-3][L-2] **5×5** 

Q.6 Define 'accounting mechanism' in detail and explain the format of final accounts. Discuss briefly the different users of Financial Statement. [CO-2][L-3,4] **20** 

#### **Annual Examination, Dec. 2022**

#### Bachelor of Dental Surgery – Third Year

#### **AESTHETIC DENTISTRY (BDS-CONS-OE-001)**

Time: 3 hrs. Max Marks: 80 No. of pages: 2 Note: • Question Paper has TWO parts: PART-A and PART-B. Marks are indicated against each question. All questions are compulsory. Draw the diagrams where ever necessary. Attempt PART-A and PART-B in the separate answer sheets. PART-A Q.1 Multiple choice questions: a) Material of choice in Class V cavities. i) GIC ii) Polycarboxylatye cement Unfilled resins iii) Silicate cement iv) b) Expanding matrix composites contain. i) Rosin ii) Epoxy resins iii) Camphroquinone iv) Spiro ortho carbonates c) The term "Water trees" in adhesive dentistry refers to: i) Collapse of collagen fibrils ii) Residual water causing porosities in polymerized adhesion layer. iii) Excessive water content in bonding agents.

iv) Tree shaped defects in etched dentin.

	d) Chemical method of strengthening porcela	in involves.	
	i) Exchange of sodium and potassium ior	ns.	
	ii) Exchange of aluminium and sodium ior	ns.	
	iii) Exchange of aluminium and potassium	ions.	
	iv) None of the above		
	e) For Porcelain fused to metal crown, Porcel	ain should have.	
	i) High fusion expansion.		
	ii) High fusion temperature.		
	iii) Linear coefficient of thermal expansion	more than that of metal.	
	iv) Linear coefficient of thermal expansion	less than that of metal.	1×5
Q.2	Write short notes on the following:		
	<ul><li>a) Ceramic Laminates.</li><li>b) Smear layer in Aesthetic dentistry.</li><li>c) Ways to compensate for polymerisation sh</li></ul>	rinkage of composite resin	S.
	<ul><li>d) Factors affecting bonding to dental tissues</li><li>e) Tooth preparation for Laminate and Venee</li><li>5×5</li></ul>		
Q.3	Discuss in detail the importance of smile designate veneering.	gn and write about compo	site and ceramic
	10 PART-B	<b>;</b>	
Q.4	Multiple choice questions:	•	
	a) Main purpose of adding metallic oxides to	ceramics is:	
	i) Transparency	ii) Color	matching
	iii) Strength	iv)	Opacity
	<ul><li>b) In aesthetic dentistry, The color of the too</li><li>i) Chroma</li></ul>	th is: ii)	Hue

	iii)	Translucency	iv)	Value	
c)		lowing intracoronal bleaching a composite restoration st approach?	n needs	to be d	one. What is the
	i)	Wait for minimum 7 days before doing restoration.			
	ii)	Do surface treatment with hydrogen peroxide for 3	minute	s.	
	iii)	Do a composite restoration with GIC base.			
	iv)	Treat with desensitising solution and then etch.			
d)		d etched tooth was contaminated by oil from air roto ponse is:	r handp	iece. Tł	ne best operator
	i)	Dry the tooth followed by bonding.			
	ii)	Clean with alcohol followed by bonding.			
	iii)	Do etching again followed by bond.			
	iv)	Bond without etching.			
e)	cer	25-year-old patient comes to the dental office with atral incisor. The tooth is intact and asymptomations of non vital tooth is:			
	i)	Periodontal pathology		ii)	Ankylosis
	iii)	External Cervical Resorption  1×5	iv)	Reinfe	ction
Wr	ite s	short notes on the following:			
a)	Sha	ade selection in aesthetic dentistry.			
b)	Dis	cuss in detail the management of Gingival tissues d	uring re	storativ	e procedures.
c)	Red	cent advances in bleaching materials.			
d)	Mic	croabrasion			
e)	Nig	ht guard bleaching. <b>5×5</b>			

Q.5

Q.6 Describe Contacts and contours for composite restorations.

# Bachelor of Dental Surgery – Third Year

# **GENERAL MEDICINE (BDS-GEME-301)**

Time: 3 hrs. Max Marks: <b>80</b>							
No. of pages: 2							
Note: Question Paper has <b>TWO</b> parts: <b>P</b> each question.	ART-A	and <b>P</b> .	ART-B.	. Marks are indicated against			
All questions are compulsory. Dra	aw the	diagran	ns wher	e ever necessary.			
Attempt PART-A and PART-B in the	Attempt PART-A and PART-B in the separate answer sheets.						
PART-A							
Q.1 Multiple choice questions:							
a) Which one of these is not seen in	a) Which one of these is not seen in pellagra?						
i) Diarrhoea			ii)	Peripheral neoropathy			
iii) Dementia			iv)	Dermatitis			
b) Which drug is avoided in a paten	t of seiz	zure dis	order?				
i) Azithromycin		ii)	Rifamp	oicin			
iii) Ofloxacin			iv)	Ceftriaxone			
c) Which one of these is not essenti	ial in Di	<a?< td=""><td></td><td></td></a?<>					
i) Blood sugar>250 mg	ii)	PH of	<>.3				
iii) Serum bicarbonate >20	iv)	Serum	+Ve fo	r ketones.			
d) Which among these in not given	for mig	raine pı	rophylox	xis?			
i) Propranocol		ii)	Sumati	ripten			
iii) Amitryptiline		iv)	Topira	·			

e) Which one of these is not useful test in AIDS?

		i)	CD.4 count	ii)	Mentoux			
		iii)	Western blot test  1x5	iv)	P-24 antigen			
Q.2	Wr	ite s	short notes on the following:					
	b) c) d)	T/TI	urvy.  F of hepatic encephalopathy.  P.  Ingival hyperplasia.  Ingeminal neuralgia.  Sx5					
Q.3	Dis	scus	s about the CF/LAB/AND man	nagement of dia	abetic ketoacedosis.			
			10	PART-B				
Q.4	Mι	ıltipl	e choice questions:	<u>TART D</u>				
	a)	Which among these is not an Antiepileptic drug?						
		i)	Valproic Acid	ii)	Lamotrigine			
		iii)	Flunarizene	iv)	Carbamazepine			
	b)	Wł i)	Which among these is not a correct statement about Hepatitis B? i) Is a DNA virus					
		ii)	Incubation period is 50-150	days				
		iii)	Faco-oral transmission					
		iv)	May progress to CLD or son	netimes lever ca	ancer.			
	c)	Ne	phrotic syndrome is characte	rized by all exce	ept one:			
		i)	Proteinuria<2GM/24 HRS.					
		ii)	Edema					
		iii)	Hypercholesterolemla					
		jy)	Serum albumin < 304 M/L					

	d) Al	Il can cause syncope except.				
	i)	Severe as			ii)	Acute rheumatic fever
	iii	) Sick sinus syndrome	iv)	Alpha	blockers	5
	e) W	/hich among these is not a common sy	mptom	of com	munity	acquired pneumonia?
	i)	Pleuritic chest pain	ii)	Fever		
	iii	) Dry or productive <b>1x5</b>		iv)	Seizure	es
Q.5	Write	short notes on the following:				
	a) A	cute glomeruconephritis.				
	b) M	yxedena Cona.				
	c) As	scites.				
	d) H	eart.				
	e) Pe	erenpheral signs of AR. <b>5x5</b>				
Q.6	Discu 1	ss acute Rheumetic Fever in detail. O				

# Bachelor of Dental Surgery – Second Year

## **GENERAL PATHOLOGY (BDS-GEPA-201)**

Time: 3 hrs.

Max Marks: 80

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt PART-A and PART-B in the separate answer sheets.

#### <u>PART-A</u>

- Q.1 Multiple choice questions:
  - a) The following is not a feature of apoptosis: (CO1,BL1)
    - i) Inflammatory reaction
- ii) Cell shrinkage
- iii) Bcl 2 gene involvement
- iv) Activation of caspases
- b) Which is not a feature of granuloma:

(CO3,BL2)

i) Epithelioid cells

ii) Lymphocytes

iii) Blood vessels

- iv) Giant cells
- c) Which of the following is not a benign tumor?

(CO1,BL1)

i) Basal cell adenoma

ii) Basal cell carcinoma

iii) Lipoma

- iv) Hemangioma
- d) Which of the following is not a congenital heart disease:

(CO2,BL3)

i) Dextrocardia

ii) Atrial septal defect

iii) Tetrology of Fallot

iv) Infective endocarditis

	e)	A boy aged 15 years has sunburst appetumour is the most likely suffering from?		hich bone				
		i) Ewings sarcoma	ii) Osteoclastoma					
		iii) Osteosarcoma	iv) Chondrosarcoma	1x5				
Q.2	Wr	ite short notes on the following:						
	a)	Enumerate the causes of white lesions in	mouth and discuss leukoplakia.	(CO1 DL4)				
	c)	Discuss osteoclastoma in detail.  Explain the sequential pathological change.	•	(CO1, BL4) (CO3,BL2) (CO3,BL4)				
	d)	Tabulate the differences between healing	j by primary and secondary union.	(CO3,BL4).				
	e)	Describe in short about chronic myeloid I	eukemia.	(CO2,BL2) <b>5x5</b>				
Q.3 Q.4	clir	fine and classify Anaemia. Discuss iron de nical features and lab diagnosis. PART- ultiple choice questions:	(CO4, BL2) <b>10</b>	s etiology,				
	a)	Following is not true about Atheroscleros	is: (CO4, BL3)					
		i) Foam cells are lipid laden monocytes	and smooth muscle cells.					
		ii) Initial event is endothelial damage.						
		iii) Most commonly accepted theory is er	ncrustation theory.					
						iv) Smoking is a major risk factor.		
	b)	Which of the following is not an antionco i) Rb	ij) P 53	(CO2, BL2)				
		iii) WT	iv) RAS					
	c)	Bone disease having fish hook app	pearance on microscopic exami	nation is (CO3, BL4)				
		i) Osteomyelitis.	ii) Fibrous dysplasia.					
		iii) Pagets diseased.	iv) Osteosarcoma.					
	d)	Which of the following is not a cardinal s	ign of inflammation:	(CO2, BL1)				

		i) Dolor.	ii) Rubor.	
		iii) Tumor.	iv) Pallor.	
	e)	A benign tumour seen in 3 <sup>rd</sup> to 5 <sup>th</sup> deplexiform pattern on microscopy is:	ecade, having most commonly follicu	lar and (CO6, BL5)
		i) PSA.	ii) Ameloblastoma.	
		iii) Warthin tumor.	iv) Lipoma.	1x5
Q.5	Wr	ite short notes on the following:		
	a)	Define metastasis. List the routes of spr	read along with its mechanism.	(CO5, BL3)
	b)	Discuss amyloidosis of spleen along with	n a suitable diagram.	(CO4, BL 4)
	c)	Discuss the pathogenesis of endotoxic s	hock.	(CO1, BL2)
	d)	Give a brief account of granulomatous i	nflammation.	(CO 2, BL4)
	e)	Describe von Willebrand disease in deta	il. (CO6, BL5) <b>5x5</b>	
Q.6	De	fine 'necrosis'. Discuss the types of n	ecrosis. Differentiate it from apopto	sis.)

### Bachelor of Dental Surgery – Third Year

# **GENERAL SURGERY (BDS-GESU-301)**

Time: 3 hrs. Max Marks: **80** 

#### No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B**. Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt **PART-A** and **PART-B** in the separate answer sheets.

#### PART-A

- Q.1 Multiple choice questions:
  - a) Interpret which one of the following statement is correct?
    - i) Both facial and trigeminal nerves are purely motor nerve.
    - ii) Interictal numbness is an important feature in 7<sup>th</sup> nerve palsy.
    - iii) Unilateral LMN palsy of 7<sup>th</sup> nerve gives rise to bilateral symptoms and signs.
    - iv) Bilateral trigeminal nerve palsy in a young person could be a sign of multiple sclerosis.
  - b) Label malignant tumour with the correct choice below:
    - i) It has got a very sharply defined edge.
    - ii) It never gives rise to the cauliflower appearance.
    - iii) They can cause distant metastasis.
    - iv) This does not have any variation in its normal mitotic activity.
  - c) List of the Universal precautions include all except:
    - i) Full-face mask in addition to proper spectacles.

- ii) Use of fully disposable, waterproof drapes and double gloving.
- iii) No limits on the number of health care workers in the operating room.
- iv) Use of rubber boots to prevent accidental injury by sharps.
- d) Choose the one correct statements out of the following:
  - i) Double chin appearance is seen in Ludwig's angina.
  - ii) A thyroid swelling in the neck moves both with deglutition and protrusion of the tongue.
  - iii) Papillary carcinoma is never associated with a thyroglossal cyst.
  - iv) Dermoid cyst is a brilliantly translucent cyst.
- e) Example of Tetanus prone wound is:
  - i) Age of the wound greater than 6 hrs.
  - ii) Depth of the wound greater than 1mm.
  - iii) Presence of devitalized ischemic tissue, and infection.
  - iv) All of the above.

1x5

- Q.2 Write short notes on the following:
  - a) Outline the differences between Troisier' sign, Trousseau's sign, and Trousseau's syndrome.
  - b) Categorise different types of shocks with their etiology.
  - c) Classify midline neck swellings. Enumerate the clinical features of a thyroglossal cyst and how can you differentiate it from a midline thyroid cyst.
  - d) Enumerate different eye signs in thyrotoxicosis.
  - e) Describe what you know about Fine Needle Aspiration Cytology (FNAC).

5x5

Q.3 What are the potentially malignant disorders of the oral cavity? Classify these with examples. Describe the aetiology, signs/symptoms and functional staging of the oral submucosal fibrosis.

#### *PART-B*

- Q.4 Multiple choice questions:
  - a) Example of Waldeyer's ring is:
    - i) All the tonsils in the neck region.
    - ii) Outer ring of lymph nodes around the neck.
    - iii) These are the lymphatic stations in the region of the neck.
    - iv) All of the above.
  - b) Rodent ulcer is identified by:
    - i) Its location above a line joining the ear lobule and angle of the mouth.
    - ii) Rolled out pearly transparent edges.
    - iii) Ultraviolet rays are one of the important predisposing factors.
    - iv) All of the above.
  - c) Examples of early compensation in a hypovolemic shock are all except:
    - i) Tachycardia and tachypnea.
    - ii) Selective peripheral vasoconstriction.
    - iii) Reduced capillary refill time.
    - iv) Bradycardia.
  - d) Carotid body tumour is identified by all of the following except:
    - i) A firm mass in the anterior triangle with an expansile pulsation on palpation.
    - ii) Shamblin staging determines the operability of the lesion.
    - iii) It is a slow growing tumour of the middle aged.
    - iv) Preoperative embolization of the feeding vessel is one of the management modalities in advanced centers.
  - e) The treatment for anaphylactic shock is:
    - i) Corticosteroids
    - ii) Epinephrine is the hall mark for the treatment of anaphylaxis.
    - iii) H1 and H2 antihistamine blockers and albuterol.

iv) All of the above.

1x5

- Q.5 Write short notes on the following:
  - a) Outline what you know about a branchial cyst.
  - b) Give examples of oral manifestations of AIDS.
  - c) Describe the malignancy potential of a solitary thyroid nodule.
  - d) Discuss on the screening and detection for oral cancer.
  - e) Describe the fracture line and clinical features of Le Forte I fracture. **5x5**
  - Q.6 Classify different types of wound healings. Describe in a tabular form the differences between a hypertrophy scar and a keloid.

Bachelor of Dental Surgery – First Year

# HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY AND MEDICAL GENETICS (BDS-HUAN-101)

Time: 3 hrs. Max Marks: **80** 

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt the **PART-A** and **PART-B** in the separate answer sheets.

### PART-A

- Q.1 Multiple choice questions:
  - a) The contents of the jugular foramen include:
    - i) Superior petrosal sinus
    - ii) Internal jugular vein
    - iii) Vagus nerve
    - iv) Hypoglossal nerve
  - b) Branches of anterior trunk of mandibular nerve are all EXCEPT:
    - i) Nerve to lateral pterygoid
    - ii) Nerve to medial pterygoid
    - iii) Buccal
    - iv) Masseteric

	c)	Hoarseness of voice after thyroidectomy results from damage to:	
		i) Superior thyroid nerve.	
		ii) Reccurant laryngeal nerve.	
		iii) Internal laryngeal nerve.	
		iv) Internal thyroid nerve.	
	d)	Which structure is NOT in the carotid sheath?	
		i) Internal jugular vein	
		ii) External jugular vein	
		iii) Internal carotid artery	
		iv) Common carotid artery	
	e)	Which is an intrinsic muscle of the tongue?	
		i) Superior longitudinal muscle.	
		ii) Genioglossus muscle.	
		iii) Hyoglossus muscle.	
		iv) Palatoglossus muscle.  1x5	
Q.2	Wr	rite short notes on the following:	
	a)	Superior cervical ganglion and Horners syndrome.	
	b)	Development of palate and its anomalies.	
	c)	Microanatomy of palatine tonsil.	
	d)	Medial wall of nose and epistaxis.	
	e)	Maxillary artery.	5x5
Q.3	Lo	ng question:	
	De	escribe parotid gland under the following heads.	

- a) Location, size and coverings b) Relations c) Microanatomy 10 PART-B Multiple choice questions: a) Sternocleidomastoid muscle is related to all on deep surface EXCEPT: i) External carotid artery. ii) External jugular vein. iii) Internal jugular vein. iv) 9th, 10th, 11th and 12th cranial nerves. b) Which laryngeal muscle is NOT supplied by the recurrent laryngeal nerve? i) Thyroarytenoid ii) Cricothyroid iii) Oblique arytenoid iv) Posterior cricoarytenoid
- c) Which extraocular muscle does NOT arise from the tendinous ring of the orbit?
  - i) Superior rectus

Q.4

- ii) Superior oblique
- iii) Medial Rectics
- iv) Inferior rectus
- d) The following is true about the layers of the scalp EXCEPT:
  - i) Second layer consist of loose connective tissue
  - ii) Fourth layer is the dangerous layer of scalp
  - iii) The fifth layer is pericranium that is adherent at the sutures
  - iv) The third layer consists of epicranial aponeurosis
- e) Sinus opening on hiatus semilunaris is:

- i) Maxillary air sinus
- ii) Sphenoidal air sinus
- iii) Middle ethmoidal air sinus
- iv) Posterior ethmoidal air sinus

1x5

- Q.5 Write short notes on the following:
  - a) Covering and blood supply of thyroid gland and associated clinical anatomy.
  - b) Upper and lower motor neuron lesions of facial nerve.
  - c) Nasopharynx and associated tonsillitis.
  - d) Cavernous Sinus and dangerous area of face.
  - e) Depressors of mandible.

5x5

Q.6 Long question:

Describe trigeminal nerve under following heads:

- a) Functional components and associated nuclei.
- b) Branches and distribution in oral cavity.

Bachelor of Dental Surgery – First Year

# HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY AND MEDICAL GENETICS (BDS-HUAN-101)

Time: 3 hrs. Max Marks: **80** 

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt the **PART-A** and **PART-B** in the separate answer sheets.

#### PART-A

- Q.1 Multiple choice questions:
  - a) The contents of the jugular foramen include:
    - i) Superior petrosal sinus
    - ii) Internal jugular vein
    - iii) Vagus nerve
    - iv) Hypoglossal nerve
  - b) Branches of anterior trunk of mandibular nerve are all EXCEPT:
    - i) Nerve to lateral pterygoid
    - ii) Nerve to medial pterygoid
    - iii) Buccal
    - iv) Masseteric
  - c) Hoarseness of voice after thyroidectomy results from damage to:

		i) Superior thyroid nerve.	
		ii) Reccurant laryngeal nerve.	
		iii) Internal laryngeal nerve.	
		iv) Internal thyroid nerve.	
	d)	Which structure is NOT in the carotid sheath?	
		i) Internal jugular vein	
		ii) External jugular vein	
		iii) Internal carotid artery	
		iv) Common carotid artery	
	e)	Which is an intrinsic muscle of the tongue?	
		i) Superior longitudinal muscle.	
		ii) Genioglossus muscle.	
		iii) Hyoglossus muscle.	
		iv) Palatoglossus muscle.	
		123	
Q.2	Wr	rite short notes on the following:	
	a)	Superior cervical ganglion and Horners syndrome.	
	b)	Development of palate and its anomalies.	
	c)	Microanatomy of palatine tonsil.	
	d)	Medial wall of nose and epistaxis.	
	e)	Maxillary artery.	5x5
Q.3	Loi	ng question:	
	De	scribe parotid gland under the following heads.	
	a)	Location, size and coverings	
		e) Q.2 Wi a) b) c) d) e) Q.3 Lo	<ul> <li>ii) Reccurant laryngeal nerve.</li> <li>iii) Internal thyroid nerve.</li> <li>iv) Internal thyroid nerve.</li> <li>d) Which structure is NOT in the carotid sheath?</li> <li>i) Internal jugular vein</li> <li>ii) External jugular vein</li> <li>iii) Internal carotid artery</li> <li>iv) Common carotid artery</li> <li>e) Which is an intrinsic muscle of the tongue?</li> <li>i) Superior longitudinal muscle.</li> <li>ii) Genioglossus muscle.</li> <li>iii) Hyoglossus muscle.</li> <li>iv) Palatoglossus muscle.</li> <li>iv) Palatoglossus muscle.</li> <li>1x5</li> <li>Q.2 Write short notes on the following:</li> <li>a) Superior cervical ganglion and Horners syndrome.</li> <li>b) Development of palate and its anomalies.</li> <li>c) Microanatomy of palatine tonsil.</li> <li>d) Medial wall of nose and epistaxis.</li> <li>e) Maxillary artery.</li> </ul>

- b) Relations
- c) Microanatomy

#### PART-B

- Q.4 Multiple choice questions:
  - a) Sternocleidomastoid muscle is related to all on deep surface EXCEPT:
    - i) External carotid artery.
    - ii) External jugular vein.
    - iii) Internal jugular vein.
    - iv) 9th, 10th, 11th and 12th cranial nerves.
  - b) Which laryngeal muscle is NOT supplied by the recurrent laryngeal nerve?
    - i) Thyroarytenoid
    - ii) Cricothyroid
    - iii) Oblique arytenoid
    - iv) Posterior cricoarytenoid
  - c) Which extraocular muscle does NOT arise from the tendinous ring of the orbit?
    - i) Superior rectus
    - ii) Superior oblique
    - iii) Medial Rectics
    - iv) Inferior rectus
  - d) The following is true about the layers of the scalp EXCEPT:
    - i) Second layer consist of loose connective tissue
    - ii) Fourth layer is the dangerous layer of scalp
    - iii) The fifth layer is pericranium that is adherent at the sutures
    - iv) The third layer consists of epicranial aponeurosis
  - e) Sinus opening on hiatus semilunaris is:
    - i) Maxillary air sinus

- ii) Sphenoidal air sinus
- iii) Middle ethmoidal air sinus
- iv) Posterior ethmoidal air sinus

1x5

- Q.5 Write short notes on the following:
  - a) Covering and blood supply of thyroid gland and associated clinical anatomy.
  - b) Upper and lower motor neuron lesions of facial nerve.
  - c) Nasopharynx and associated tonsillitis.
  - d) Cavernous Sinus and dangerous area of face.
  - e) Depressors of mandible.

5x5

#### Q.6 Long question:

Describe trigeminal nerve under following heads:

- a) Functional components and associated nuclei.
- b) Branches and distribution in oral cavity.

# Bachelor of Dental Surgery – Second Year

# **GENERAL MICROBIOLOGY (BDS-MBIO-201)**

Time: 3 h	nrs.					
Max Marl	ks: <b>8</b>	0				
		No. of pages: 2				
Note:		tion Paper has <b>TWO</b> parts: <b>PART-A</b> and s stion.	PAR	<b>RT-B.</b> M	larks are indicate	ed against each
•	All q	uestions are <b>compulsory.</b> Draw the diag	gran	ns wher	e ever necessar	y.
• /	4 <i>tten</i>	npt <b>PART-A</b> and <b>PART-B</b> in the separate	e an	swer sh	eets.	
		PART-A				
Q.1 M	lultipl	le choice questions:				
a)	a) The absence of all forms of microbial life, including spores, is known as:			S:		
			ΓC	02,L1]		
	.,		_	-		
	i)	Decontamination	ii)	Disinfe	ection	
	iii)	Sterility	iv)	Asepsi	S	
b)	) Ste	erilization method of Lowenstein Jenson's	me	dium?		[CO1,L2]
	i)	Autoclaving	ii)	Filtrati	on	
	iii)	Gamma radiation	iv)	Inspiss	sation	
c)	) Th	e bacteria involved in the production of c	lenta	al caries	s is/are: [0	CO1, L1]
	i)	Streptococcus mutans		ii)	S sanguis	
	iii)	Both i) and ii)		iv)	Streptococcus p	oyogenes
ď	) Th	e most toxic exotoxin is:	ΓC	<b>1</b> 2   11		

i) Tetanus toxin

Diphtheria toxin

ii)

	iii) Botulinum toxin	iv)	Cholera toxin
e)	What is the structure that is found in gram-r	negative bu	it not in gram-positive bacteria?
		[CO2,L1]	
	i) Capsule	ii)	Outer membrane
	iii) Cell membrane	iv) <b>1x5</b>	Endospore
An	swer the following in brief:		
a)	Define 'bacterial capsules' and support your	answer wi	ith suitable examples.
c) d)	[CO1, L1] Tabulate the difference between various answers with diagrams. [CO2, L3] Describe in detail sterilization by the gaseou L5] Tabulate the difference between active and pexamples. [CO3, L2] Classify Streptococci and describe in detail throat.	ıs method. Dassive imr	[CO4, munity. Justify your answer with
	ustrate and create a flow chart for the moist tail an Autoclave. Support your answer with a		
	[CO4L6] <b>10</b>		
Mı	PART-B ultiple choice questions:		
	Serum sickness is an example of:		
u)	[CO1 L1]		

Q.2

Q.3

Q.4

i) Type-I hypersensitivity

iii) Type-III hypersensitivity

ii) Type-II hypersensitivity

iv) Type-IV hypersensitivity

Precipitation test Flocculation test  Thich of the following statements does not Appears early in the primary immune resonant Neutralizes bacterial toxins.  Can fix complement.  Crosses the human placenta.	
Thich of the following statements does no Appears early in the primary immune re Neutralizes bacterial toxins. Can fix complement.	t apply to IgG? [L5, CO5]
Appears early in the primary immune re Neutralizes bacterial toxins.  Can fix complement.	
Appears early in the primary immune re Neutralizes bacterial toxins.  Can fix complement.	
Appears early in the primary immune re Neutralizes bacterial toxins.  Can fix complement.	
Appears early in the primary immune re Neutralizes bacterial toxins.  Can fix complement.	
Appears early in the primary immune re Neutralizes bacterial toxins.  Can fix complement.	
Neutralizes bacterial toxins.  ) Can fix complement.	esponse.
) Can fix complement.	
·	
) Crosses the human placenta.	
ycobacteria are acid-fast positive bacteria 203,L2]	a because of:
The presence of lipopolysaccharide in t	he bacterial cell wall.
The presence of mycolic acid in the bac	cterial cell.
) Wall the presence of lipids.	
) Both ii) and iii).	
hich of the following properties are the c	haracteristics of tetanospasmin?
It is a heat-labile protein	ii) It is a neurotoxin
) It can be toxoided 1x5	iv) All of these
	The presence of lipopolysaccharide in to the presence of mycolic acid in the back) Wall the presence of lipids.  Both ii) and iii).  Thich of the following properties are the country in the presence of lipids.  It is a heat-labile protein  It can be toxoided

a) Tabulate the differences between Herpes simplex virus 1 and virus 2.

[CO3L5,]

b) Give an account of the laboratory diagnosis of Hepatitis B virus infection.

[CO4, L3]

- c) Describe the laboratory diagnosis of meningococcal meningitis. [CO4, L3]
- d) Describe the life cycle of Entamoeba Histolytica. Justify your answer with a diagram and label them.

[CO5 L1]

e) Describe in detail candidiasis. Add a note on its laboratory diagnosis.

[CO3, L2] **5x5** 

Q.6 Classify 'Mycobacteria'. Write in detail the laboratory diagnosis of pulmonary and extrapulmonary tuberculosis.

[CO5 L3, L6] **10** 

Bachelor of Dental Surgery – First Year

# DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY (BDS-ORPA-101)

Time: 3 hrs. Max Marks: <b>80</b>	
	No. of pages: 2

developed?

i) Late Cap Stage

iii) Late Bell Stage

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt **PART-A** and **PART-B** in the separate answer sheets.
- PART-A 0.1 Multiple choice questions: a) The eruption of permanent maxillary canine is at the age of: 11-12 years i) 6-7 years ii) iii) 13-15years iv) Above 18 years b) Which of the following gland/s are purely serous in nature'? i) Parotid and Von Ebner's glands ii) Sub-mandibular glands iii) Glosso-palatine glands iv) Blandin-Nuhn glands c) At which Stage of Odontogenesis the stellate reticulum is fully

Early Bell Stage

Early Cap Stage

ii)

iv)

d) The principle direction of movement of tooth in eruptive phase is:					
i) Lateral	ii)	Mesial			
iii) Distal	iv)	Axial			
<ul> <li>e) Name the tooth which has well marked marginal developmental groove.</li> </ul>	l ridg	jes and d	leep		
i) Permanent maxillary central incisor					
ii) Permanent mandibular lateral incisor					
iii) Permanent mandibular central incisor					
iv) Permanent maxillary lateral incisor <b>1x5</b>					
Write short notes on the following:					
<ul> <li>a) List the differences between primary and secondary do osteodentin.</li> </ul>	entin.	Add a not	e on		
<ul><li>c) Describe the light and electron-microscopic features</li><li>d) Describe the occlusal morphology of permanent max</li></ul>	of Pa cillary	rotid glan first mola			
5x5					
Enumerate physiological and morphological stages Discuss in detail on advanced bell stage.  10	of o	dontogen	esis.		
<u>PART-B</u>					
Multiple choice questions:					
a) The average length of permanent maxillary canine is	<b>;</b> :				
i) 27mm	ii)	33 mm			
	<ul> <li>i) Lateral</li> <li>iii) Distal</li> <li>e) Name the tooth which has well marked marginal developmental groove.</li> <li>i) Permanent maxillary central incisor</li> <li>ii) Permanent mandibular lateral incisor</li> <li>iii) Permanent mandibular central incisor</li> <li>iv) Permanent maxillary lateral incisor</li> <li>iv) Permanent maxillary lateral incisor</li> <li>1x5</li> <li>Write short notes on the following:</li> <li>a) List the differences between primary and secondary dosteodentin.</li> <li>b) Enumerate the zones of pulp. Add a note on age chacological control of the light and electron-microscopic features d) Describe the occlusal morphology of permanent maxility ended in the secondary of the primary and secondary dosteodentin.</li> <li>b) Enumerate the zones of pulp. Add a note on age chacological the occlusal morphology of permanent maxility ended in the primary and secondary dosteodentin.</li> <li>b) Enumerate physiological and morphological stages Discuss the functions of saliva with added note on it</li> <li>5x5</li> <li>Enumerate physiological and morphological stages Discuss in detail on advanced bell stage.</li> <li>10</li> <li>PART-B</li> <li>Multiple choice questions:</li> <li>a) The average length of permanent maxillary canine is</li> </ul>	ii) Lateral iv)  iii) Distal iv)  e) Name the tooth which has well marked marginal ride developmental groove.  i) Permanent maxillary central incisor  ii) Permanent mandibular lateral incisor  iii) Permanent mandibular central incisor  iv) Permanent maxillary lateral incisor  1x5  Write short notes on the following:  a) List the differences between primary and secondary dentinosteodentin.  b) Enumerate the zones of pulp. Add a note on age changes c) Describe the light and electron-microscopic features of Pad Describe the occlusal morphology of permanent maxillary e) Discuss the functions of saliva with added note on its composition of the saliva with added note on its composition of the saliva with added note on its composition.  a) The average length of permanent maxillary canine is:	ii) Lateral iii) Distal iv) Axial e) Name the tooth which has well marked marginal ridges and of developmental groove. i) Permanent maxillary central incisor ii) Permanent mandibular lateral incisor iii) Permanent mandibular central incisor iv) Permanent maxillary lateral incisor 1x5  Write short notes on the following: a) List the differences between primary and secondary dentin. Add a not osteodentin. b) Enumerate the zones of pulp. Add a note on age changes of pulp. c) Describe the light and electron-microscopic features of Parotid glan d) Describe the occlusal morphology of permanent maxillary first mola e) Discuss the functions of saliva with added note on its composition.  5x5  Enumerate physiological and morphological stages of odontogene Discuss in detail on advanced bell stage.  10  PART-B  Multiple choice questions: a) The average length of permanent maxillary canine is:		

	iii) 20mm	iv)	17mm
b)	The remnants of the dental lamina are called: i) Hertwigs' Epithelial Root Sheath Cells		
	ii) Cell Rests of Malassez		
	iii) Cell Rests of Serre		
	iv) Reduced Enamel Epithelium		
c)	The widely accepted tooth numbering system which computers and word processing systems is:	is cor	npatible with
	i) Universal system notation	ii)	Palmer
	iii) FDI system	iv)	WHO system
d)	The activation of vitamin D into its active form occur	s in th	ie:
	i) Liver		ii) Kidney
	iii) Liver and Kidney Gland	iv)	Thyroid
e)	The first deciduous tooth to exfoliate is:		
	i) Deciduous Maxillary Lateral Incisor		
	ii) Deciduous Mandibular Lateral Incisor		
	iii) Deciduous Mandibular Central Incisor		
	iv) Deciduous Maxillary Central Incisor 1x5		

- Q.5 Write short notes on the following:
  - a) List the differences between permanent maxillary and mandibular first premolars.
  - b) Discuss the various stages in the life cycle of ameloblast.

- c) Classify alveolar bone. List the differences between mature and immature bone.
- d) List out morphologic and histologic differences between deciduous and permanent tooth.
- e) Classify oral mucous membrane. Add a note on histology of Gingiva.

5x5

Q.6 Describe in detail the morphology of permanent mandibular first molar and add a note on its chronology.

Bachelor of Dental Surgery – Third Year

# ORAL PATHOLOGY, MICROBIOLOGY AND FORENSIC ODONTOLOGY (BDS-ORPA-301)

Time: 3 hrs.						
	Max Marks: <b>80</b>					
	No. of pages: 2					
Note: • Question each que	n Paper has <b>TWO</b> parts: <b>PART-A</b> Jestion.	and Pa	4RT-B.	Marks	are in	dicated against
<ul><li>All ques</li></ul>	stions are <b>compulsory.</b> Draw the	diagram	s where	e ever i	necessa	ry.
Attempt	PART-A and PART-B in the sepa	arate ans	swer sh	eets.		
	<u>PART</u>	<u>-A</u>				
Q.1 Multiple ch	hoice questions:					
a) Fordyc cavity.	ce's granules is associated with t	he hete	rotopic	collecti	on of _	in oral
i) Sw	veat glands			ii)	Salivar	y glands
iii) Ha	air follicles			iv)	Sebace	ous glands
b) Name plaque	the inorganic constituent which e?	is prese	nt in hi	ghest o	concent	ration in dental
i) Ph	nosphorus			ii)	Calciun	n
iii) Iro	on				iv)	Fluorine
c) Pain w	which increases in intensity as the	patient l	ies dow	n is ide	ntified	as:
i) Foo	ocal reversible pulpitis		ii)	Acute p	oulpitis	
iii) Ch	nronic hyperplastic pulpitis	iv)	Chronic	pulpiti	S	
d) "Herrir	ngbone" pattern of proliferation of	fspindle	-shaped	d cells is	s associ	ated with:

	<ul><li>i) Fibrous histiocytoma histiocytoma</li></ul>	ii)	Maligr	nant	fibrous
	iii) Neurofibrosarcoma	iv)	Fibros	arcoma	
	e) The central, acellular, eosinophilic mass neurilemmoma is named as:	s found in	center	of Anto	oni A tissue of
	i) Verrucous body		ii)	Verruc	iform body
	iii) Verocay body 1x5		iv)	Basalo	id body
Q.2	Write short notes on the following:				
	<ul> <li>a) Describe Warthins tumor in detail.</li> <li>b) List and explain the various histopatholog</li> <li>c) Discuss the pathogenesis of Oral Submuce</li> <li>d) Determine the role of DNA in Forensic Ode</li> <li>e) Summarize the developmental anomalies</li> </ul>	ous Fibrosis. ontology.			ma. <b>5x5</b>
Q.3	Classify Fibro-osseous lesions. Explain in histopathology of Fibrous Dysplasia. Add a no				
	10 <u>PART-L</u>	<u>B</u>			
Q.4	Multiple choice questions:				
	<ul> <li>a) A dentigerous cyst develops due to collect surface. Select the correct option.</li> </ul>	ction of fluid	betwee	n	and tooth
	i) Reduced dental epithelium		ii)	Stellat	e reticulum
	iii) Internal dental epithelium epithelium			iv)	External dental
	b) The tumor cells of calcifying epithelial odo resemblance to cells of dental	_	mor pres	sents a c	close histological
	i) External dental epithelium		ii)	Stellat	e reticulum

		III)	Stratu epithe	m intermed lium	lium				IV)	Interna	al dental
	c)			bular saliva ing patholo		the most (	common loca	ation as	ssociate	ed with	which of
		i)	Mucoc	ele Sjögren's	syndrome						ii)
		iii)	Sialolit		g sialometap	olasia				iv)	
	d)	Ide	entify th	ne lesion, in	which pale	blue scler	a is not seen	?			
		i)	Paget's	s disease ome						ii)	Marfan
		iii)	Ehlers- syndro	-Danlos syr ome	ndrome				iv)	Pierre	Robin
	e)	Au	spitz's s	sign and Mo	nroe's absce	ess are pre	esent in whicl	h of the	e follow	ing skin	lesions?
		i)	•	ema multifo ematosus	rme				ii)	Lupus	
		iii)	Psoria	sis Pemphigu	S		1x5				iv)
Q.5	Wı	ite s	short no	otes on the	following:						
	a)	Ex	plain Sy	philis in de	tail.						
	b)	Lis	t the va	arious Carie	s activity tes	sts. Explaii	n in detail the	e Snyd	er test.		
	c)	De	scribe E	Burning Mo	uth Syndrom	ie.					
	d)	Illu	ustrate t	the histopat	thology of Pe	emphigus	Vulgaris.				
	e)	Cla	assify 'A	nemia'. Exp	olain in detai	l the Iron	Deficiency A	nemia.		5	<b>x</b> 5
Q.6	fea	ature	es and ications	histopatho	_	-	n detail the o			-	

# Bachelor of Dental Surgery – Second Year

# FORENSIC ODONTOLOGY (BDS-ORPA-OE-001)

Time: 3 hrs. Max Marks: **80** 

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt **PART-A** and **PART-B** in the separate answer sheets.

#### PART-A

- Q.1 Multiple choice questions:
  - a) The Demirjian method for staging tooth development recognizes:

- i) 9 defined stage categories for each tooth type- Stage A to H2.
- ii) Has a greater number of stage categories than the other method discussed.
- iii) Is not associated with a mean age of attainment of each of the stages.
- iv) Must always be used in conjunction with assessments of hand/wrist x-rays.
- v) Is rarely used in forensics.
- b) Neonatal line determines:

- i) The presence in the teeth and in the long bones of a skeleton.
- ii) Dental calculus.
- iii) Arrested growth during infant and child enamel formation.
- iv) Premature loss of teeth.

	(BL-4, CO-	21			
	(BL 1, CO	-2)			
i) Dec	composition	ii)	Mutilati	on	
iii) Bur	rning			iv)	Burial
v) All	of the above				
d) Which years.	feature amongst the following pre (BL-3, CO-2)	edicts th	e age c	f huma	n skeleton at about 25
i) Beg	ginning fusion of all of the epiphys	ses of th	ne post	cranial	skeleton.
ii) Fus	sion of a suture on the base of a s	skull.			
iii) All	of the teeth, including the 3rd mo	olars, are	e extens	sively w	orn.
	e 3 individual bones of the innominnt socket.	nate (isc	hium, p	ubis, ar	nd Ilium) fuse in the hip
v) Nor	ne of the above.				
e) A boy h	has 20 permanent teeth and 8 ter	mporary	teeth.	Calculat	te his age:
	(BL-3, CO-4)				
i) 9 y	vears		ii)	10 yea	rs
iii) 11	years			iv)	12 years
v) 13	years	1×	5		
Q.2 Write short	t notes on the following:				
b) Compa	v Demirjian's method of Radiograp are and contrast Cheiloscopy and F ate methods of Denture marking.	_		tion.	(BL-2, CO-3) (BL-4, CO-4) (BL-3,

c) Lost personhood is associated with which of the following conditions:

v) Radiographic defect.

	d)	Dis	cuss concept of chain of custody. (BL-2, CO-5)						
BL-5,	-		eate a Forensic report.						
-,		,							
Q.3		scuss in detail about classification systems, variables affecting, methods of recording and alysis of bite mark evidence.  (BL-2, CO-1) <b>10</b> PART-B							
Q.4	Mu	ltipl	e choice questions:						
	a)	And	m credited with making the earliest r cient Rome around 15-59 AD. I was r diers to kill his mistress and bring me	narried	to the E	mperor	Claudius. I orde	red my	
		i)	Agripina.			ii)	Urgulanilla		
		iii)	Aelia			iv)	Messalina		
	b)		rensic dentistry involves the study of ted as evidence in court. What is anot					ts to be	
		•	3, CO-1) Forensic Anrhropology	ii)	Forens	sic Odor	ntology		
		iii)	Forensic Palynology.	iv)	Forens	sic Ento	mology		
	c)	also	nough I am known as a silversmith of a practising dentist. I performed ntification in America. Who am I?		-		case of forensic	denta	
		СО	-2)				(BL	-4,	
		i)	George Washington.	ii)	Paul R	evere			
		iii)	Benjamin Franklin		iv)	Abrahi	im Lincoln		
	d)		scended the English throne in 1066 ar legend, the first use of bite-mark ide				_	o am I	
		i)	Henry –I.			ii)	King Norman.		
		iii)	Richard –I		iv)	Willian	m the conquerer		

	e) How many teeth does a human adult normally have?		(BL-3, CO-4)
	i) 28	) 3	2
	iii) 30	·) 2	7
	1×5		
Q.5	Write short notes on the following:		
	a) Underline the importance of record keeping in Dental offi	ce.	(BL-1, C0-3)
	b) Discuss CAPMI.		
	(BL-2, CO-1)		
	<ul><li>c) Explain step wise procedure of Ameloglyphics.</li><li>CO-3)</li></ul>		(BL-2,
	<ul> <li>d) Propose role of Tongue prints in forensic investigations.</li> <li>CO-2)</li> </ul>		(BL-5,
	e) Judge the role of Dentists in cases of child abuse.		(BL-6, CO-5) <b>5×5</b>
Q.6	Define 'Forensic Odontology'. Assess the roles and res Odontologist?	sponsib	ilities of a Forensi

## Bachelor of Dental Surgery – Third Year

# ETHICS (BDS-PHDE-OE-001)

Time: 3 hrs.

iii) Sweden

c) Habit is a very efficient method of:

i) Population Based Research

d) Macro ethics principle guide the conduct of:

i) Doing dental treatment

iii) Decision making

Max Marks:	100					
	No. of pages: 2					
	nestion Paper has <b>TWO</b> parts: <b>PART-A</b> and <b>PART-B</b> ach question.	. Marks	s are I	indicated against		
<ul><li>A/</li></ul>	ll questions are <b>compulsory.</b> Draw the diagrams whe	re ever	necess	ary.		
<ul><li>Att</li></ul>	Attempt PART-A and PART-B in the separate answer sheets.					
	PART-A					
Q.1 Mult	iple choice questions:					
a)	Non-rationale ways of approaching ethical issues is:					
i	i) Imitation		ii)	Virtue ethics		
i	iii) Deontology	iv)	Princi	plism		
b) .	is known for their longstanding eg	alitaria	nism.			
i	i) United Kingdom	ii)	India			

iii) Society iv) Professional Colleagues

ii)

iv)

Cooperation

iv)

ii)

**Patients** 

USA

Public speaking

	e)	Pla	giarism literally means:			
		i)	fair treatment of individuals and groups.			
		ii)	not doing wrong. Dentists and dental researchers are to patients.	avoid in	ıflicting	harm on
		iii)	a good quality in people, especially in their character and	behavio	ur.	
		iv)	a form of dishonest behaviour whereby a person copies the	e work o	of some	one else.
			1×5			
Q.2	Wr	ite :	short notes on the following:			
	b) c) d)	Wh Ra Th	ntist society relationship.  nistle blowing.  tionale approaches of ethical issues.  e Nuremberg code.  fine ethics with examples.  6×5			
Q.3		nat i ues	s special about dental ethics? How is it different from medic?  15  PART-B	al and c	ther fie	ld ethical
Q.4	Mu	ıltip	le choice questions:			
	a)		nich of the following are not the fundamental principles that e ADA Code?	t form t	he foun	dation of
		i)	Non-maleficence autonomy		ii)	Patient
		iii)	Veracity Advertising			iv)
	b)	Do i)	ctor-Patient relationship models are:  Commercial model  model	ii)	Intera	ctive

		iii) Guide model model		iv)	Agent
	c)	ACD stands for:			
		i) Asses communicate decide			
		ii) Assess consequentialism decide			
		iii) Act communicate dentist			
		iv) Attrition compare decide			
	d)	Macro ethics principle guide the conduct of:			
		i) Population based research ii)	Patien	its	
		iii) Society Professional colleagues		iv)	
	e)	Confidentiality is also important because a person deserves.			
		i) Respect to look forward			ii)
		iii) to be secretive 1×5	iv)	autor	omy
Q.5	Wr	rite short answers of the following:			
	a)	How communication and consent is important for good dentis	st and pat	ient rel	ationship.
	b)	Discuss the non rational approaches of ethical issues.			
	c)	Elements of informed consent.			
	d)	Discuss about the decision making for incompetent patients	<b>5.</b>		
	e)	Role of FDI in ethics. <b>6×5</b>			
Q.6	Wł	nat are OZAR and SOKOL proposal for six values in dentistry?	•		

#### Bachelor of Dental Surgery – First Year

#### **GENERAL HUMAN PHYSIOLOGY (BDS-PHYS-101)**

Time: 3 hrs. Max Marks: **80** 

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are compulsory. Draw the diagrams where ever necessary.
- Attempt the **PART-A** and **PART-B** in the separate answer sheets.

#### PART-A

- Q.1 Multiple choice questions:
  - a) SA Node is the dominant pacemaker because:
    - i) Located higher
    - ii) Large in size
    - iii) Has regular activity
    - iv) Has fastest rate
  - b) P wave in ECG corresponds to:
    - i) Ventricular depolarization
    - ii) Atrial depolarization
    - iii) Ventricular repolarization
    - iv) Atrial systole
  - c) Normal stroke volume is:
    - i) 5 6 ml/beat
    - ii) 70 -80 ml/beat

	iii) 5-6 L/beat
	iv) 20 -30 L/beat
d)	Most potent respirator stimulant is:
	i) Oxygen
	ii) Carbon dioxide
	iii) H +
	iv) K +
e)	The diffusing eapacitx for $CO_2$ compared to that of $O_2$ is times: i) 20
	iii) 05 iv) 02
	1x5
Wr	ite short notes on the following:
a)	Ionic basis of action potential.
b)	Surfactant.
c)	Factors affecting erythropoiesis.
d)	GFR.
e)	Hypoxia.
	5x5
Loi	ng question:
	scribe in detail sequence of events in Excitation-contraction coupling of skeletal scle.
	10

Q.2

Q.3

		<u>PART-B</u>
Q.4	Mι	Iltiple choice questions:
	a)	Which of the following refractory errors requires use of concave lens for correction?
		i) Hypermetropia
		ii) Myopia
		iii) Astigmatism
		iv) Colour blindness
	b)	Which of the following controls the Circadian rhythm?
		i) Hypothalamus
		ii) Cerebellum
		iii) Thalamus
		iv) Mid brain
	c)	The chromosomal pattern in Klinefelter's syndrome is:
		i) XO
	ii)	XX
	iii)	XXY
	iv)	XXX
	d)	Phases of menstrual cycle include all except:
		<ul><li>i) Proliferative phase</li><li>ii) Secretory phase</li></ul>
		iii) Menstrual pase
		iv) Hypertrophic phase
	e)	The chromosomal pattern in Turner's syndrome is:
		i) XO

ii) XX

- iii) XXY
- iv) XXX

1x5

- Q.5 Write short notes on the following:
  - a) Functions of cerebellum.
  - b) Functions of Plasma Protein.
  - c) Oxygen-Dissociation curve.
  - d) Acromegaly.
  - e) Function's of saliva.

5x5

Q.6 Long question:

Describe briefly the action of thyroid hormones. Also, explain the mechanism of synthesis.

10

Bachelor of Dental Surgery – Second Year

#### **DENTAL MATERIALS (BDS-PROS-201)**

Time: 3 hrs.								
Max Marks: 80								
No. of pages: 2								
Note: • Question Paper has <b>TWO</b> parts: <b>PART-A</b> and each question.	PART-	<b>B.</b> Marks	are indicated	d againsi				
All questions are compulsory. Draw the diag.	All questions are compulsory. Draw the diagrams where ever necessary.							
Attempt PART-A and PART-B in the separate	answer s	sheets.						
<u>PART-A</u>								
Q.1 Multiple choice questions:								
a) Following factors can play a role in achieving	adhesive	e bonds,	except:					
i) Wetting.								
ii) Interpenetration.								
iii) Micro-mechanical interlocking.								
iv) Elastic modulus.								
b) Absorption of mercury in the human body oc	curs leas	st from:						
i) Lungs.	ii)	Kidney	/S.					
iii) GI track.		iv)	Skin.					
c) Which one of the following is not the objective	ve of tritu	uration						

ii) Keep the amount of gamma 1 or gamma 2 matrix crystals to maximum.

iii) Pulverize pellets into particles to aid in attack by mercury.

iv) Achieve a workable mass of amalgam in minimum time.

i) Remove oxides from powder particle surface.

	d) Which of the following is present in the powder of acrylic?					
	i) Methyl methacrylate.	ii)	Benzoy	/l perox		
	iii) Hydroquinone .		iv)	Para-t	coludine	2.
	e) Acrylic resins are used for:					
	i) Anterior restorations.	ii)	Dentur	e base	).	
	iii) Temporary bridges.  1x5	iv)	All of t	he abo	ve.	
Q.2	Write short notes on the following:					
	<ul><li>a) Visible light cure resin.</li><li>b) Galvanism.</li><li>c) Titanium alloys.</li><li>d) Eames technique.</li><li>e) Adverse effects of dental materials.</li></ul>					
5x5						
Q.3	Discuss in detail the properties, advanta CAD-CAM restorations?  10	nges, disad <b>RT-B</b>	vantage	s of de	ntal ce	ramics. What are
Q.4	Multiple choice questions:					
	a) Side effect of light cure system is:					
	i) Cataract.				ii)	Conjunctivitis.
	iii) Retinal damage.			iv)	Iritis.	
	<ul><li>b) Particle size in micro-filled composite</li><li>i) 0.05-0.04 mm.</li></ul>	e is:	ii)	0.01-0	0.1 mic	ron.
	iii) 0.5-1 micron.			iv)	0.3-0	.4 mm .
	<ul><li>c) Deformation that is recovered upopressure is called:</li><li>i) Youngs modulus.</li></ul>	on remova	al of ex	ternall ii)		ed force or c strain.

	iii) Elastic strain.	iv)	Flexural strength.
d)	Brazilian test is used to determine the ultimate tensile	strengt	n of:
	i) Ductile materials.	ii)	Flexible materials.
	iii) Brittle materials.	iv)	Malleable materials.
e)	The pattern for metallic framework for removable part	ial dent	ure is fabricated from:
	i) Inlay wax type II.	ii)	Boxing wax.
	iii) Casting wax.	iv)	Modeling wax.
	1x5		
a) b) c)	·		
e)	Pickling. <b>5x5</b>		

Q.5

Q.6 What are the types of denture base materials? Write in detail about their chemical and physical stages of polymerization and add a note on types of curing cycles.

#### Bachelor of Dental Surgery – First Year

#### **BEHAVIOURAL SCIENCES (BDS-PSY-OE-001)**

Max M	_	-	0			
			No. of pages: 2			
Note:			tion Paper has <b>TWO</b> parts: <b>PART-A</b> and <b>PART-B.</b> Marks of question.	are in	ndicated	d against
•	) /	4// <i>q</i>	uestions are <b>compulsory.</b> Draw the diagrams where ever t	necessa	ery.	
•	A	tten	npt PART-A and PART-B in the separate answer sheets.			
			PART-A			
Q.1	Mι	ıltip	le choice questions:			
	a)	Th	e concept of the cocktail party effect was given by:			
		i)	Cherry	ii)	Freud	
		iii)	Allport	iv)	Wundt	
	b)	Th	e way people evaluate their various abilities and attributes.			
		i)	Self-concept Self-perception	ii)		
		iii)	Self-esteem	iv)	Self-at	tribute
	c)	Th	e measurement of emotional intelligence is known as:			
		i)	EQ		ii)	SQ
		iii)	IQ		iv)	PQ
	d)	So	ciometry is the study of:			

i) Group cohesiveness

iii) Performance

Communication

Satisfaction

iv)

ii)

	e) The part of the self which is unknown to us is known as:			
	i) Open self self		ii)	Blind
	iii) Unknown self	iv)	Hidde	n self
	[CO1,5L2] <b>1x5</b>			
Q.2	Write short notes on the following:			
	a) Discuss differences between positive and negative self-cond	cepts.		
	[CO1,L1] b) What are the characteristics of the individuals with high sel c) What is attitude? Discuss the components of attitude . d) Discuss the importance of emotional intelligence in professions.	[CC	[CO 01,L1]	1,L1]
	[CO5,L5] e) Discuss the importance of interpersonal relationship in prof	essional s	-	L4] <b>5x5</b>
Q.3	"Our attitude determines perception, behaviour and motivation <b>PART-B</b>		ite with 1, L6] <b>1</b>	
Q.4	Multiple choice questions:			
	a) stages for team development.			
	i) Five ii)	Four		
	iii) Three iv)	Nine		
	b) Emotional Intelligence has components. i) Three ii)	Five		
	iii) Seven iv)	Eight		
	c) An attitude about one's physical attributes and characteristic	ics are kn	own as:	

		i)	Role performance	ii)	Body i	mage	
		iii)	Self-identity	iv)	Self es	teem	
	d)	An	ything that causes stress is known as:				
		i)	Stressor		ii)	Event	
		iii)	Coping	iv)	Mindfu	ılness	
	e)	Th	e first step of self-concept development is:				
		i)	Self-awareness	ii)	Self-ac	cceptance	
		iii)	Self- disclosure  1x5	iv)	Self- h	elp	[CO1,5 L2]
Q.5	Wr	ite s	short notes on the following:				
	a)	Dra	aw the common pattern of interactions in tea	ıms.		[CO 5 L 6]	
	b)	Dis	scuss the role of the Johari window in conflict	manag	gement.		
			[CO5L 2]				
	c)	Su	ggest some strategies for team building with	examp	le.		
	d)	Dis	scuss the differences between team and grou	ıp with	example	e.	
	e)	Wł	nat is stress? Discuss the nature of stress wit	h exam	ple.	5x5	
Q.6	For	rmu <b>10</b>	late some strategies for managing stress.				

#### Bachelor of Dental Surgery – First Year

#### **RESEARCH INNOVATION CATALYST-I (BDS-RIC-101)**

Time: 3 hrs. Max Marks: **80** 

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B**. Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt **PART-A** and **PART-B** in the separate answer sheets.

#### <u>PART-A</u>

- Q.1 Multiple choice questions:
  - a) Computers are used in which phase of research?
    - i) Conceptualization phase
    - ii) Dissemination phase
    - iii) Design and planning phase
    - iv) All of the above
  - b) All of these are a method of presentation of data except:
    - i) Spot map ii) Pie chart
    - iii) Histogram iv) Ring diagram
  - c) Which of these is a style manual for referencing?
    - i) Vancouver system
    - ii) Chicago manual of style
    - iii) Harvard system

		iv) All the above				
	d)	All are measures of dispersion except:				
		i) Mean Variance			ii)	
		iii) Standard deviation iv)		Range	2	
	e)	Which of the following is a source of primary data?				
		i) Books				
		ii) Surveys questionnaire data				
		iii) Newspapers				
		iv) Internet articles				
		1x5				
Q.2	a) b) c) d)	Explain research ethics.  Describe the various types of interviews in research.  What are the advantages and disadvantages of observation What is the role of computers in research?  What are the steps of report writing?  5x5	nal ı	researc	:h?	
Q.3	Wŀ	nat are the types of survey? Explain the various steps of surv <b>PART-B</b>	æy.			10
Q.4	Mu	Iltiple choice questions:				
	a)	To find the Standard deviation we need to know:				
		i) Mean			ii)	Mode
	b)	iii) Median  Quantitative data can be collected by all the following meth i) In depth interviews with open ended questions  ii) Surveys with closed ended questions	ods	iv) s excep		e above
		ii) Surveys with closed ended questions				

c)	Difference between the upper and lower limits is calle	d a:		
	i) Range		ii)	Frequency
	iii) Standard deviation	iv)	Class i	nterval
d)	Male/female is a:			
	i) Nominal scale		ii)	Ratio scale
	iii) Ordinal scale		iv)	Interval scale
e)	All of the following are indexing databases except:			
	i) Scopus		ii)	EMBASE
	iii) PUBMED Harvard		1x5	iv)
Wr	ite short notes on the following:			
a)	What are the considerations in selecting a research pr	oblem?		
b)	Plagiarism in research.			
c)	Measures of central tendency.			
d)	Selecting a research topic.			
e)	Write about the different types of scales. <b>5x5</b>			
Des	cribe the various types of sampling techniques used in	researcl	n.	10

iii) Experiments

Q.5

Q.6

#### Bachelor of Dental Surgery – Second Year

#### **RESEARCH INNOVATION CATALYST (BDS-RIC-201)**

Time:	3	hrs	
Max N	٩aı	rks:	80

No. of pages: 2

Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B.** Marks are indicated against each question.

- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt **PART-A** and **PART-B** in the separate answer sheets.

#### <u>PART-A</u>

- Q.1 Multiple choice questions:
  - a) Preferred portal for Scientific Literature search is:
    - i) Search Engine ii) Database
  - b) NLM stands for:
    - i) National Literature of Medicine ii) National Library of Medicine
    - iii) Novel Literature in Medine iv) National Library of Medical Terms
  - c) Following is not a method of random selection.
    - i) Purposive sampling
    - ii) Table of random numbers
    - iii) Computer randomization
  - d) Plagiarism is:
    - i) Copying verbatim
    - ii) Explaining findings and giving credit to author
  - e) Mode is:

- i) Middle most value
- ii) Most commonly appearing value

1x5

- Q.2 Write short notes on the following:
  - a) IPR.
  - b) Importance of Referencing.
  - c) How will you reference a Chapter in a book using Vancouver style?
  - d) Prototype.
  - e) Measures of Dispersion.

5x5

Q.3 You are writing a systematic review on comparison of shear bond strength of GIC v/s Composite. Write the PICO statement for the same. Mention the search strategy for literature search for this topic, including specific key words and Word Builders.

10

#### PART-B

- Q.4 Multiple choice questions:
  - a) Root mean square deviation is:
    - i) Standard deviation.
    - ii) Mean Deviation.
    - iii) Variance.
  - b) PICO stands for:
    - i) Prevention Intervention Comparison and Outcome.
    - ii) Patient Intervention Comparison and Outcome.
    - iii) Patient Intervention Community and Outcome.
  - c) Elevator pitch is:
    - i) A Short business pitch
    - ii) A detailed business pitch

		iii)	A method of process improvement			
	d)	All	of the following are types of reviews except.			
		i)	Book Review		ii)	Systematic Review
		iii)	Argumentative Review	iv)	Scopir	ng Review
	e)	Pro	ocess innovation refers to:			
		i)	The development of a new service			
		ii)	The development of a new product			
		iii)	The implementation of a new or improved p	roducti	on met	hod <b>1x5</b>
Q.5	Wr	ite	short notes on the following:			
	a)	Eth	nical Clearance.			
	b)	Dig	gital Research Profile.			
	c)	Lis	t the different acts for the protection of IP.			
	d)	Wł	nat is an invention according to Indian Patent	s Act?		
	e)	Ту	pes of Literature Review. <b>5x5</b>			
			- CAC			
Q.6			in detail about 'innovation' and types of innovact innovation with an example.	ations. <i>i</i>	Also, wr <b>10</b>	· ·

#### Bachelor of Dental Surgery – Third Year

#### **RESEARCH INNOVATION CATALYST (BDS-RIC-301)**

Time: Max M			0								
					No. of pag	ges: 2					
Note:	<b>-</b>		tion Pap stion.	per has <b>TV</b>	VO parts: PA	ART-A and PAI	<b>RT-B.</b> ∧	Aarks ar	e indica	nted against e	each
•	) /	4// q	uestion	s are <b>com</b>	<b>pulsory.</b> Di	raw the diagrai	ns whe	re ever	necessa	ary.	
	A	ttem	npt <b>PAI</b>	RT-A and I	<b>PART-B</b> in t	the separate an	iswer si	heets.			
					_	PART-A					
Q.1	Mu	ıltipl	e choic	e question	s:						
	a)	Bru	ıshing t	technique f	for patients	with recession					
		i)	Modifi	ed bass			ii)	Bass			
		iii)	Stillma	an's							
	b)	the		ases 80 cor	•	Erosion and So drinks and of t			•		
		i)		5					ii)	4	
		iii)	0.5					iv)	10		
	c)	Lev	vel of E	vidence of	Systematic	Review and me	eta anal	ysis is:			
		i)	1a					ii)	1b		
		iii)	2a					iv)	2b		
	d)	The	e follow	ving is a ty	pe of contro	ol in a Case Con	itrol Stu	ıdy:			
		i)	Hospit	al Control			ii)	Neighl	oorhood	d Control	

		iii) Best Friend Control	iv)	All of t	he abov	/e
	e)	Non Parametric equivalent of Paired t te	st is:			
		i) Kruskal Walis ANOVA	ii)	Wilcox	on Sign	Rank Test
		iii) Chi square Test 1x5		iv)	Mann \	Whitney U test
Q.2	ıW	ite short notes on the following:				
	b) c) d)	Measures of Morbidity.  A study is planned to assess percentage tooth Present or Absent. Which test of significant tests of significant tests of the Ethics in Experimental research.  Neyman's Bias.  Blinding.  5x5				
Q.3	De	scribe the significance of tests in research  10				
Q.4	Μι	PART Iltiple choice questions:	<u>- D</u>			
		p less than is considered	statisti	ically sig	nificant	t.
		i) 0.05			ii)	0.01
		iii) 0.5			iv)	Both i) and ii)
	b)	All of the following comes under demogri) History of tobacco habit	raphic o	data exc Name	ept:	
		iii) Religion			iv)	Age
	c)	The individual squares in forest plot dep	ict:			
		i) Summary effect of each study				
		ii) Combined effect summary of all stud	dies			
	d)	Mean Median and mode are:				
		i) Measures of Central Tendency				

ii)	Measures	of	Dispersion	١
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- e) Percentage of Values within 1, 2 and 3 Standard deviation as plotted on a Normal Curve is:
  - i) 62%, 92% and 95%
- ii) 65.2%, 95.3%, 99.9%
- iii) 67.4%, 95.4%, 99.7%
- iv) 68.3%, 95.4%, 99.7%

1x5

- Q.5 Write short notes on the following:
  - a) Measures of Mortality.
  - b) Steps in Case Control Study.
  - c) Levels of Prevention.
  - d) Intraoral Examination.
  - e) Study models Maintenance of records.

5x5

Q.6 Define 'Epidemiology'. Write in detail about experimental Epidemiology.

10

Roll	No.	:	

#### **Annual Examination, September 2022**

Master of Dental Surgery – First Year

## CONSERVATIVE DENTISTRY AND ENDODONTICS BASICS (MDS-CONS-101)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 1

Note: *All questions are* **compulsory** and also draw the diagrams where ever necessary. Marks are indicated against each question.

#### Q.1 Write short notes on:

a)	Physical properties of dental materials.	[CO1][L1]
b)	Caries risk assessment.	[CO4][L3]
c)	Impact of rotary files metallurgy on their shaping ability.	[CO2][L4]
d)	Forest Plot.	[CO3][L2]
e)	Bioactivity of restorative materials.	[CO1][L2]
f)	Nerve supply of jaws.	[CO1][L1]
g)	Recent concepts in Dentine Adhesion.	[CO4][L4]
h)	CAD CAM in Restorative Dentistry.	[CO2][L2]
i)	Role of inflammatory mediators in Pulpal Inflammation.	[CO4][L1]
j)	Role of Vitamins in maintenance of oral health.	[CO1][L3] <b>5x10</b>

#### Long questions:

Q.2 Discuss 'physiology of saliva'. Elaborate the role of saliva in caries prevention.

25

Q.3 Discuss the development of teeth and congenital anomalies affecting the tooth form.

25

Roll	No.:		

#### **Annual Examination, September 2022**

Master of Dental Surgery – First Year

## ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS -BASICS (MDS-ORTH-101)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 1

Note: *All questions are* **compulsory** and also draw the diagrams where ever necessary. Marks are indicated against each question.

#### Q.1 Write short notes on:

a)	Role of meckels cartilage.	[CO-1] [L-1]
b)	Genetic counseling.	[CO-1] [L-3]
c)	Wolfe's Law.	[CO-2] [L-2]
d)	Bio ethics.	[CO-3] [L-3]
e)	Local anesthetics.	[CO-2] [L-4]
f)	Importance of parathormone.	[CO-1] [L-5]
g)	Hyalinization.	[CO-4] [L-1]
h)	Samples and sampling techniques.	[CO-4] [L-3]
i)	Thyroid Hormone.	[CO-2] [L-3]
j)	Banding and bonding.	[CO-4] [L-2]

5x10

#### Long questions:

Q.2	Describe various methods used for assessment of skeletal age.	25
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Q.3 Describe the composition and role of elastics in orthodontics. **25** 

Roll	No.:		

133/6

#### **Annual Examination, September 2022**

Master of Dental Surgery – First Year

# PEDIATRIC AND PREVENTIVE DENTISTRY-BASICS (MDS-PEDO-101)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 1

Note: *All questions are* **compulsory** and also draw the diagrams where ever necessary. Marks are indicated against each question.

#### Q.1 Write short notes on:

a)	Referred pain.	[CO-2][L-4]	
b)	Syncope.	[CO-3][L-3]	
c)	Balanced diet.	[CO-4][L-3]	
d)	Passive immunity.	[CO-1][L-2]	
e)	Inferior Alveolar Nerve.	[CO-1][L-1]	
f)	Drug dosage calculation in children.	[CO-2][L-5]	
g)	Genetic counselling.	[CO-3][L-6]	
h)	Mentalis muscle.	[CO-1][L-1]	
i)	Sample size estimation.	[CO-4][L-5]	
j)	Oral manifestations of COVID.	[CO-2][L-4]	5x10

#### Long questions:

- Q.2 Analyse the role of different aspects of dental plaque and saliva in the initiation and progress of Dental Caries. [CO-3][L-4] **25**
- Q.3 Describe in detail the development, histological structures ,innervations, functions, regressive changes and clinical considerations of Dental Pulp. [CO-1,2,3][L-2] **25**

#### **Annual Examination, September 2022**

### Master of Dental Surgery – First Year

#### PERIODONTOLOGY -BASICS (MDS-PERI-101)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 1

Note: *All questions are compulsory* and also draw the diagrams where ever necessary. Marks are indicated against each question.

#### Q.1 Write short notes on:

a) Summarize the role of saliva as a diagnostic marker.	[CO-5][L-2]			
b) Formulate the role of antibiotics in periodontics.	[CO-3][L-6]			
c) Classify the randomized controlled trials.	[CO-5][L-4]			
d) Recommended culture media for periodontopathogens.	[CO-4][L-5]			
e) Develop a Research question.	[CO-6][L-6]			
f) Illustrate the origin, insertion and functions of muscles of mastication.[CO-1][L-3]				
g) Applied aspects of Maxillary sinus.	[CO-2][L-3]			
h) List the role of micronutrients in periodontal health and disease.				
	[CO-3][L-1]			
i) Describe the pain pathway mechanism.	[C-5][L-2]			
j) Outline the role of inflammasomes in periodontitis. [CO-1][L-4] <b>5x10</b>				

#### Long questions:

- Q.2 Describe the biology of periodontal tissues in detail. [CO-1][L-2] **25**
- Q.3 Explain 'Pharmacokinetics'. Discuss the various routes of drug administration in detail.  $[\text{CO-4}][\text{L-1}] \ \textbf{25}$

#### **Annual Examination, December 2022**

Master of Dental Surgery – First Year

## PROSTHODONTICS AND CROWN AND BRIDGE- BASICS (MDS-PROS-101)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 1

Note: *All questions are* **compulsory** and also draw the diagrams where ever necessary. Marks are indicated against each question.

#### Q.1 Write short notes on:

a)	Secondary hypertension.	[CO-1] [L-1]
b)	Age changes in the mandible.	[CO-1] [L-2]
c)	Muscles of tongue.	[CO-1][L-1]
d)	Geriatric nutrition.	[CO-1] [L-3]
e)	Biomaterial waste disposal.	[CO-1][L-3]
f)	Anti-inflammatory and Analgesics used in dentistry.	[CO-1] [L-2]
g)	Elastomeric impression materials.	[CO-1] [L-1]
h)	Casting defects.	[CO-1] [L-2]
i)	Calcium metabolism.	[CO-1] [L-1]
j)	T test and ANOVA test.	[CO-2][L-2] <b>5x10</b>

#### Long questions:

- Q.2 Applied anatomy of temporomandibular joint. Also, discuss temporomandibular disorders and their prosthodontic significance. [CO-2][L-4] **25**
- Q.3 Write in detail about implant biomaterials used in dentistry. [CO-1][L-2] **25**

Roll	No.	:	

#### **Annual Examination, September 2022**

Master of Dental Surgery - First Year

### PROSTHODONTICS AND CROWN AND BRIDGE- BASICS (MDS-PROS-101)

Time: 3 hrs. Max Marks: **100** 

No. of pages: 1

Note: *All questions are* **compulsory** *and also draw the diagrams where ever necessary. Marks are indicated against each question.* 

#### 0.1 Write short notes on:

a) Discuss biomedical waste management in a prosthodontic clinic.

[CO-1] [L-2]

b) Physiology of mastication and deglutition. [CO-4] [L-1]

c) Physiology of Polysynaptic reflex action. [CO-4][L-1]

d) Does occlusion have any role in temporomandibular disorders?

[CO-3] [L-4]

e) Discuss causes of cracks and voids in all ceramic restorations and how you can control them. [CO-1][L-5]

f) Discuss different study designs. [CO-2] [L-1]

g) Endocrinal disorders a effecting the prosthodontic treatment.

[CO-5] [L-2]

h) Discuss development and histology of enamel and dentin.

[CO-5] [L-1]

- i) What difficulties will be encountered and what measures you will take, while fabricating a complete denture in a case suffering from neuromuscular incoordination. [CO-5] [L-3]
- j) Discuss manipulation and how you can control the setting expansion of gypsum bonded investment material.

[CO-1][L-4] **5x10** 

#### Long questions:

- Q.2 Why TMJ is known as ginglymoarthrodial joint? Describe its anatomy and write about the physiology of Mandibular movements. **25**
- Q.3 Discuss properties of base metal alloys, casting shrinkage, its compensation, and casting defects.

25