Annual Examination, August 2023 Bachelor of Dental Surgery – First Year BIOCHEMISTRY, NUTRITION AND DIETETICS (BDS-BIOC-101)

Time: 3	hrs.		Marks: 80 of pages: 2
Note:	Question Paper has TWO parts: PAR each question.		
	All questions are compulsory. Draw Attempt the PART-A and PART-B in		<i>V.</i>
	<u>PAR</u>	<u>T-A</u>	
a b	Multiple choice questions: i) Specific test for keto hexose sugar is i) Benedict test iii) Barfoed test i) The ion which inhibits enolase activit i) Sodium iii) Fluoride i) Marker Enzyme(s) of cardiac disease i) LDH iii) CK i) Tyrosine rich food and Iodised salt a following? i) Hyperthyroidism	ii) Fehling test iv) All of the above ty is ii) Mangnesium iv) Bicarbonate e is/are: ii) AST iv) All of the above are recommendatory for prevention ii) Hyper-parathyroidism	of which of
е	iii) Endemic Goitre(hypothyroidism)e) Bile acid is the end product of:i) Hemeiii) Purine	iv) Addison's diseaseii) Cholesteroliv) Pyrimidines	1×5
a b c	Answer the following in brief: a) What is BMR? How BMR is significan b) Write mechanism by which calcium h c) What is the normal pH of blood? maintenance of acid -base balance. d) Enumerate liver function tests and of significance. e) Discuss diabetes mellitus and its type	nomeostasis is maintained. PExplain the role of plasma buff describe in detail any two of them was a second control of the control	
Q.3 D	Describe HMP cycle and its significance	in the body in detail.	10
	<u> </u>	PART-B	
a b	Multiple choice questions: a) The increase in serum creatinine level i) Diabetes mellitus iii) Renal diseases b) Biuret test is a specific test to find out i) -SH linkage iii) O-NH.NH2- b) Normal range of blood urea is i) 60-100 mg % iii) 0.6-1.2 mg %	ii) Hepatitis iv) Jaundice	

d)	Clotting time and prothrombin time	are increased in deficiency of	
	i) Vitamin C	ii) Vitamin D	
	iii) Vitamin K	iv) Vitamin E	
e)	Concentration of fluorine in drinking	water is	
	i) 1-0.2ppm	ii) 1-2 ppm	
	iii) 4-5ppm	iv) 0.5-0.6 ppm	1×5

- Q.5 Answer the following in brief:
 - a) Describe beta oxidation of fatty acids.
 - b) Explain gout.
 - c) Describe the enzyme inhibition in detail.
 - d) What are biologically important substances derived from Glycine? And indicate their functions.
 - e) Describe the reactions of the urea cycle. Discuss the disorders of urea cycle. **5×5**
- Q.6 Describe the sources, biochemical functions and deficiency manifestations of vitamin D. **10**

Bachelor of Dental Surgery – First / Second Year

COMPUTER APPLICATIONS (BDS-CA-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 *Multiple choice questions:*

- a) What is the primary function of a spreadsheet software?
 - 1) Creating and editing text documents
 - 2) Analyzing and manipulating numerical data
 - 3) Designing web pages
 - 4) Creating visual presentations
 - 5) Managing email communication
- b) In a word processor, what does the "undo" function typically allow you to do?
 - 1) Save the document
- 2) Copy text
- 3) Redo the last action
- 4) Delete a paragraph
- 5) Reverse the last editing action
- c) Which type of software is used to create and deliver visual presentations with slides?
 - 1) Spreadsheet software
- 2) Word processor
- 3) Presentation software
- 4) Graphic design software
- 5) Video editing software
- d) What is the common file extension for saving spreadsheets?
 - 1) .jpg

2) .pdf

3) .docx

4) .xls

- 5) .ppt
- e) In spreadsheet software, what is a cell reference like "B5"?
 - 1) A specific date

2) A cell in column B and row 5

3) A formula

4) An error

5) A hyperlink

1×5

Q.2 Write short notes on the following:

- a) Explain the purpose of the "find and replace" feature in word processing software.
- b) Describe how to create a formula to calculate the sum of a range of numbers in spreadsheet software.
- c) How do slide transitions contribute to the flow of a presentation in presentation software?
- d) Explain the role of headers and footers in a document created using word processing software.
- e) What is the purpose of sorting data in a spreadsheet and how can it be done? **6×5**

Q.3 **Long questions:**

Evaluate the impact of conditional formatting in spreadsheet software. Explain how it can help in data analysis and decision-making. Provide examples of when conditional formatting should be applied and when it might not be necessary.

15

PART-B

Q.4 *Multiple choice questions:*

- a) What is the primary function of a database software?
 - 1) Creating and editing text documents
 - 2) Designing web pages
 - 3) Managing email communication
 - 4) Storing and managing data in structured format
 - 5) Creating visual presentations
- b) In HTML, which tag is used to create a hyperlink?
 - 1) <a>

2) <h1>

3)

4) <div>

- 5)
- c) What does CSS stand for in web development?
 - 1) Common styling system
 - 2) Computer software and systems
 - 3) Cascading style sheets
 - 4) Content sharing service
 - 5) Central security system
- d) Which HTML tag is used to create a numbered (ordered) list?
 - 1)

2)

3) >

4) <a>

- 5)
- e) What is the purpose of a blog?
 - 1) To store and retrieve data
 - 2) To create interactive web pages
 - 3) To exchange email messages
 - 4) To share information, opinions, or experiences online
 - 5) To design multimedia presentations

1×5

Q.5 Write short notes on the following:

- a) Explain the primary function of a database management system (DBMS) in database software.
- b) Describe the structure of an HTML hyperlink and its attributes.
- c) What is the role of CSS in web development and how does it affect the appearance of web content?
- d) How does a blog differ from a traditional website and what types of content are typically found on blogs?
- e) What is the purpose of using HTML headings (e.g., <h1>, <h2>) in web content and how do they affect the organization of information? **6×5**

Q.6 **Long questions:**

You have been given a task to create a webpage for Manav Rachna University and design the HTML structure for the webpage, including the header, navigation menu, main content area, and footer. Explain the purpose of each section and provide an example of the HTML code.

Bachelor of Dental Surgery - COMMON FOR ALL

COMPUTER APPLICATIONS (BDS-CA-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	Multiple choice questions:		
۷. ـ	a) bgcolor is an attribute of body tag.		[CO-3][L-1]
	i) TRUE	ii) FALSE	[00 0][]
	b) Which enables us to send the same	,	
	i) Macros	ii) Template	
	iii) Mail merge	iv) None of the above	
	c) What is the gutter margin?	,	
	i) Margin that is added to the left	margin when printing	
	ii) Margin that is added to the righ		
	iii) Margin that is added to the bind		
	iv) Margin that is added to the outs		
	d) Which can be used for quick access	s to commonly used commands	and tools?
	i) Status bar	ii) Toolbar	
	iii) Menu bar	iv) Title Bar	
	e) Which is the default alignment in w	ord?	[CO-1][L-1]
	i) Left	ii) Right	
	iii) Centre	iv) Justify	
	f) Following is used for creating prese		[CO-1][L-2]
	i) MS Word	ii) MS Access	
	iii) MS Excel	iv) Power Point	
	g) Which of the following tag is used t		[CO-4][L-1]
	i) <i></i>	ii) 	
	iii) <u></u>	iv) <pre></pre>	FOO 4351 43
	h) HTML tags are enclosed in:	**	[CO-4][L-1]
	i) # and #	ii) { and }	
	iii)! and?	iv) < and >	[CO 4][I 1]
	i) Which of the following tag is used ti) and 	ii) and	[CO-4][L-1]
	iii)	iv) None of the above	
	j) "CTRL + UP ARROW" is used to:	iv) None of the above	
	i) Moves the cursor one page up	ii) Moves the cursor one line	un
	iii) Moves the cursor one screen up		•
	my rioves the earsor one sereen ap	iv) Hoves the earson one part	agraph ap z n zo
Q.2	Write short notes on the following (an	y four):	
_	a) Role of PowerPoint in education.	-	[CO-1,2,3][L-5]
	b) Use of print and print preview.		
	c) Query wizard of Microsoft access.		
	d) Animation in Microsoft PowerPoint.		
	e) Mail merge in Microsoft word.		5×4

Q.3 Write the applications of Microsoft Word, Microsoft PowerPoint and Microsoft Access in dentistry. Explain in detail how you can use these applications in the field of dentistry. [CO1,2,3][L2] **10**

PART-B

Q.4	Multiple choice questions:		
	a) What does the abbreviation HTML s		
	i) Hypertext markup language		
	iii) Hypertext markdown language	•	
	b) Which tags are most commonly use	-	[CO5][L2]
	i) Heading	ii) Title	
	iii) Paragrah	iv) All of the above	
	c) What is the tag for space?		[CO5][L1]
	i)	ii)	
	iii) <lr></lr>	iv) <ar></ar>	
	d) How many sizes of headers are ava	ailable in HTML by default?	
	i) 5	ii) 1	
	iii) 3	iv) 6	
	e) What is the attribute for tag?		[CO5][L1]
	i) pt	ii) url	
	iii) path	iv) src	
	f) Can a data cell contain images?		[CO5][L1]
	i) Yes	ii) No	
	g) Each list item in an ordered or und	ordered list has which tag?	[CO5][L1]
	i) list tag	ii) Is tag	
	iii) li tag	iv) ol tag	
	h) What is the smallest header in HTM	1L by default?	
	í) h1	ii)h2	
	iii) h6	iv) h4	
	i) HTML files are saved by default wit	,	
	i) .html	ii) .h	
	iii) .ht	iv) None of the above	
	j) Which of the following tags doesn't	•	
	i) br>	ii) <hr/>	
	iii) both i) and ii)	iv) None of the above	2×10
Q.5	Write short notes on the following tags	s (any four):	[CO5][L2]
Q.5	a) HEAD	(uny rout)	[003][22]
	b) BODY		
	c) DIV		
	d) MARQUEE		
	e) FORM		5×4
	-,		J
\circ	What are the various forcetting to	and the LITALIA Market Hand differen	

Q.6 What are the various formatting tags in HTML? Write the difference between , tags and , <i> tags. [CO 5][L1,4] **10**

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

Time: 3 hrs.

Marks: **100**

No. of

pages: 7

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

<u>SECTION-A</u> <u>Compréhension Écrite</u>

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

Aujourd'hui, c'est l'anniversaire de mon ame Erica. 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 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 Erica. Ses parents achètent un portable pour Erica. Après le dîner, nous chantons et dansons.

Je rentre à la maison à 8h et j'étudie pour mon examen d'anglais.

Vocabulaire

a. Jardin-garden

c. cadeaux- gifts

b. étudie- study

d. couper- to cut

A. Répondez aux questions

2

(Answer the questions):

(Allower the questions)
a) Où(Where) est-ce que Erica fête son anniversaire et pourquoi (why)?
b) Quel temps fait-il ?

	(Complete with a		(jardin/maison/portable)
II,			ère est le 12 novembre.
:::	(examens/anniv	•	(halla/hazu/han)
			(belle/beau/bon)
			st en octobre. (robe/mère/fête)
v _.	médecins)	onnent	à Pauline. (le livre, les cadeaux
$\subset \mathbf{D}$	Oonnez l' infinitif	f des verhs	
	3		
_	Write the infiniti		-
i)	Chantons :		·
ii)	Sont :		·
iii)) Achète :		,
,	,	SECTI	
			
	rivez votre journ Ou scribe your daily	<u>Production</u> née ou décrivez v	<u>onÉcrite</u>
	Ou	<u>Production</u> née ou décrivez v	onÉcrite votre maison.
	Ou	<u>Production</u> née ou décrivez v	onÉcrite votre maison.
	Ou	<u>Production</u> née ou décrivez v	onÉcrite votre maison.
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	Ou	<u>Production</u> née ou décrivez v	onÉcrite votre maison.

Voulons	réservation	autre choses	un steak frites	une table
monsieur	voulez	crème brûlée	entrée	du vin blanc

	Au Restaurant	
<u>SEC</u> TIO N-C Gra mm	Garçon: Bonjour a)! Manuel: Bonjour! Garçon: Est-ce que vous avez une b)? Manuel: Non. Je veux c) pour deux. Garçon: Voilà monsieur! Qu'est-ce que vous d) manger? Manuel: Comme e), je voudrais de la salade verte. Sophie: Et pour moi, f), s'il vous plait! Garçon: Et comme plat principal, monsieur? Manuel: Comme plat principal, nous g) du poisson aux pommes de terre. Aussi nous voulons h), s'il vous plait! Garçon: Et comme dessert? Sophie: Pour nous, de la i) Garçon: Voilà monsieur! Voulez-vous j) Manuel: Merci.	
aire Q.4	Conjuguez les verbes donnés. (Conjugate the given verbs)	10
	a) Elles leurs devoirs. (finir)	
	b) Le garçon les journaux. (jeter)	
	c) Je à la maison.(rester)	
	d) Vous demain. (voyager)	
	e) La fille pour aller à la classe.(s'habiller)	
	f) Les étudiants le professeur. (regarder)	
	g) Tu avec tes amis le samedi soir?(s'amuser)	
	h) Elle espagnol.(parler)	
	i) Je indien. (être)	
	j) Vous les fleurs. (adorer)	
Q.5	Complétez avec les adjectifs possessifs. (Mon,ma,mes,ton,ta,tes etc.) (Complete with possessive adjectives) a) Nous rangeons vetêments dans l'armoire. b) Vous parlez souvent à enfants?	3
	c) Marie va au cinéma avec sœur et frère.	
	d) Les enfants aiment parents.	
	e) J'aime amie.	
Q.6	Complétez avec l'article partitif (du, de la, de l', des) (Complete the sentences using partitif articles) a) le prépare viande.	3

b) Elle prend biscuits avec lait chaud.	
c) À la soirée, l'homme boit bière.	
d) Elle mange pizza.	
e) Nous buvons eau minérale.	
Complétez avec les prépositions données. (Complete with the given prepositions) a) Le cinema est l'hôtel. (on the right of)	6
c) Nous partons eux. (without)	
d) Il y a une piscine la maison. (behind)	
e) J'habite de l'école. (far from)	
f) Le chat est la table. (under)	
Mettez les phrases au pluriel. (Change the phrases in plural)	4
a) Le garcon est beau et gentil.	
b) Elle a un animal.	
c) Tu as un ami français?	
d) J'ai un stylo noir.	
Mettez les phrases au féminin. (Change the phrases in feminine)	4
a) Le frère de Paul est vieux.	
b) L'homme est indien.	
c) Le chanteur est gros.	
d) Le père est bon et mince.	
Qui est-ce? (Who is he/she?)	5
	c) À la soirée, l'homme boit bière. d) Elle mange pizza. e) Nous buvons eau minérale. Complétez avec les prépositions données. (Complete with the given prepositions) a) Le cinema est l'hôtel. (on the right of) b) Je fais le devoir matin. (since) c) Nous partons eux. (without) d) Il y a une piscine la maison. (behind) e) J'habite de l'école. (far from) f) Le chat est la table. (under) Mettez les phrases au pluriel. (Change the phrases in plural) a) Le garcon est beau et gentil. b) Elle a un animal. c) Tu as un ami français? d) J'ai un stylo noir. Mettez les phrases au féminin. (Change the phrases in feminine) a) Le frère de Paul est vieux. b) L'homme est indien. c) Le chanteur est gros. d) Le père est bon et mince.

a) Il joue du piano.

b) Elle ausculte les maladies.					
c) Il fait des plans pour contruire de	es maiso	ns.			
d) Elle enseigne aux étudiants.					
e) Elle travaille dans un agence de	journaux	ζ.			
Quelle heure est-il ? (What time is it ?)					
a) 06:30					
b) 12:00					
c) 10:15					
d) 01:45					
e) 04:20					
Reliez les colonnes. (Match the columns)					
		Colonne B	Answers		
(Match the columns)	i.)	Colonne B En automne	Answers		
(Match the columns) Colonne A	i.) ii.)		Answers		
(Match the columns) Colonne A a) Il neige et la terre est blanche		En automne	Answers		
(Match the columns) Colonne A a) Il neige et la terre est blanche b) Il fait beau et frais	ii.)	En automne En hiver	Answers		
Colonne A a) Il neige et la terre est blanche b) Il fait beau et frais c) La soleil brille d) Le ciel est souvent gris Répondez aux questions. (Answer to the questions) a) Quel est le mois entre juin et aoû	ii.) iii.) iv.)	En automne En hiver Au printemps	Answers		
Colonne A a) Il neige et la terre est blanche b) Il fait beau et frais c) La soleil brille d) Le ciel est souvent gris Répondez aux questions. (Answer to the questions)	ii.) iii.) iv.)	En automne En hiver Au printemps	Answers		
(Match the columns) Colonne A a) Il neige et la terre est blanche b) Il fait beau et frais c) La soleil brille d) Le ciel est souvent gris Répondez aux questions. (Answer to the questions) a) Quel est le mois entre juin et aoû	ii.) iii.) iv.)	En automne En hiver Au printemps	Answers		

5

		·	
Q.14	Complétez avec les ar (Complete using defin	ticles defines – le, la, l', les ite articles)	3
	a) Il regarde	maison.	
	b) Nous allons à	_école.	
	c) Elle sont ca	adeaux.	
	d) Le fille lit	_ livres intéressants.	
	e) Nous choisissons	voiture verte.	
	f) avion est b	eau.	
Q.15	Complétez avec les ar (Complete using indef	ticles indefinis — un, une, des finite articles)	3
	a) Vousavez	_ stylos sont vertes.	
	b) J'ai sac.		
	c) Nous avons	cahiers.	
	d) Tu as co	pin français?	
	e) L'étudiant fait	devoirs.	
	f) C'est fleur.		
Q.16	Traduisez les mots.		3
	(Translate the words)		
	a) Merci beaucoup		
	b) Happy birthday		
	c) Good afternoon		
	d) Bonne Chance		
	e) Enchanté	- 	
	f) Au revoir		
Q.17	Rémplissez les blancs (Fill in the blanks)		3
	a) Mardi est le	jour de la semaine.	
	b)e	est le dernier mois de l'année.	
	c) Septembre est le	mois de l'année.	
	d) Mai est le	mois de l'année.	
	e) est	le quatrième jour de la semaine.	
	f) Samedi est le	jour de la semaine.	

CULTURE ET CIVILISATION

d) Quelle est votre nationalité?

Q.18	Nommez. (Name) a) Deux voitures françaises		4
	b) Deux vins français		
	c) Deux couturiers français		
	d) Deux villes françaises		
Q.19	Dites vrai ou Faux. (Tell True or False) a) Le suisse est un pays francop	hone de la France.	 3
	b) Le Franc est la monnaie uniqu		
	c) Pondichéry est une ville franç	aise.	
	d) La seine est un fleuve françai	S.	
	e) Le Brie est un fromage frança	nis.	
	f) Le 16 juillet est la fête nation	ale de la France.	
Q.20	Complétez les phrases. (Complete the sentences.)		3
	a) est	l'hymne national de la France.	
	b) L'emblème national de la Fran	nce est	
	c) Le synonyme de la France est		

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

Time: 3 hrs.

Max Marks: **100**No. of pages: 8

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

Q.1 Lee el texto y responde a las preguntas de comprensión. Read the text and answer to the following questions.

8

Mi Colegio

iHola! Yo soy Pascual Duarte. Tengo diecinueve años y soy italiano. Soy <u>alumno</u> de la Universidad Carlos III, en Madrid. Mi colegio es un colegio mixto, es que hay chicos y chicas. Como es un colegio de la Universidad, por eso no hay uniforme y todos llevamos lo que queremos. Mi hostel está muy cerca del colegio y normalmente yo <u>llego al colegio a pie</u>. Yo salgo a las ocho y veinte y llego a las nueve menos cuarto. Mis clases <u>comienzan</u> a las nueve y cuarto.

Mi colegio tiene muchas <u>facilidades</u>, tenemos una cafetería, una <u>piscina</u>, laboratorios de ciencias, una biblioteca y un gimnasio. En el <u>recreo</u> yo voy a la cafetería con mis amigos y comemos bocadillos, pasta o pizza o algo especial del día. Todas mis clases terminan a las 1.30. Después yo practico deportes por una hora, en el colegio.

Me gusta el miércoles y viernes muchísimo. Tenemos clases de música, drama y lenguas extranjeras. A las 9.30 tengo la clase de francés, a las 10.30 voy a la clase de drama y luego a la música. Por la tarde, voy al gimnasio y hago ejercicio con mis amigos del barrio.

Responde a las preguntas en frases completas:

a)	¿Cómo se llama el chico?
b)	¿Cómo se llama la Universidad y Dónde está?
c)	¿Cuándo llega al colegio?
d)	¿A qué hora las clases empiezan?
e)	¿Qué come en el recreo?
f)	¿Cuáles son los días favoritos de Pascual? ¿Por qué?
g)	¿Qué hace él por la tarde?

n)	¿Que nace	despues de	e las clases e	en el colegio?		

Q.2 Lee el texto y elige la respuesta correcta. Read the text and choose the correct option.

10

Los domingos en la vida de María.

La madre de María se levanta muy temprano todos los domingos para preparar el desayuno. Ella cocina comida diferente como tortilla, huevos, pan, zumo de frutas, limonada, y leche con chocolate. María también prepara dulces para toda la familia, ella le gusta cocinar mucho como su madre. María y su hermano Juan ordenan la mesa de desayuno para la familia. A ellos les gusta ayudar a su madre mucho. Toda la familia desayuna juntos a las 9. Luego, María estudia y lee una novela. A las 10 por la mañana ella habla con su amigo para discutir sobre la clase de matemáticas. A las 5 por la tarde María va a jugar con sus amigos. Al final del día, Toda la familia come la cena junta.

	eguntas ¿Quién se levanta temp	orano?	
a)		ii) La madre	iii) Los hijos
b)	¿Quién cocina la comidi i) María	a diferente? ii) La madre	iii) Juan
c)	¿Qué comida cocina Ma i) Dulce	aría? ii) Huevos	iii) Pan
d)	¿La madre de María se i) por la noche		no iii) todos los domingos
e)	¿Quiénes son María y J i) Hermanos		iii) Hermanos del padre
f)	¿Que ordena María y Ju i) La comida	uan para la familia? ii) La silla	iii) La mesa de desayuno
g)	¿A qué hora desayuna i i) A las 10	toda la familia? ii) A las 9	iii) A las 5
h)	¿Por qué María habla co i) Para jugar ii) Para la cena iii) Para discutir sobre l	-	cas
i)	¿Qué hace María a las ! i) Va a jugar	•	os iii) Come comida
j)	Toda la familia de María i) cena	ajunto. ii) desayuna	iii) almuerza

What are you going to do this weekend (use ir a infinitive a	nd time)?
	
Traduce las siguientes frases. Translate the following phrases.	
Translate the following phrases.	
Translate the following phrases. Inglés a español	
Translate the following phrases. Inglés a español a) I get up at 8'oclock in the morning.	
Translate the following phrases. Inglés a español a) I get up at 8'oclock in the morning. b) My brother washes his face in the night.	
Translate the following phrases. Inglés a español a) I get up at 8'oclock in the morning. b) My brother washes his face in the night. c) We bath everyday.	
Translate the following phrases. Inglés a español a) I get up at 8'oclock in the morning. b) My brother washes his face in the night. c) We bath everyday. d) I always eat breakfast at 8:30 in the morning. e) I take shower at 9 in the morning. Español a ingles	
Translate the following phrases. Inglés a español a) I get up at 8'oclock in the morning. b) My brother washes his face in the night. c) We bath everyday. d) I always eat breakfast at 8:30 in the morning. e) I take shower at 9 in the morning.	

i) We wear specs.

j) I have short and wavy hair but my sister has long and straight.

Q.5 **Observa el mapa de ciudad y elige cierto o falso. Observe the map of city and choose true or false.**

10



a)	El banco está a lado del restaurante.	Cierto/falso
b)	El teléfono publicó está enferente a la heladeria.	Cierto/falso
c)	La piscine está entre la farmacia y el centro commercial.	Cierto/falso
d)	El estacionamiento está a la derecha de la tienda de aborraotes.	Cierto/falso
e)	La oficina de correo está frente al parque.	Cierto/falso
f)	El baño públicio está a la izquierda del supermercado.	Cierto/falso
g)	La tienda de música está frente a la peluquería.	Cierto/falso
h)	El buzón está en el estacionamiento.	Cierto/falso
i)	El cine está sobre la calle Davis.	Cierto/falso
j)	La heladería está detrás del cine.	Cierto/falso

Q.6 Completa las frases con la conjugación de estar+gerundio. 10 Complete the phrases with the conjugation of estar+gerundio.

e.g. Mis amigos y yo (escuchar) <u>estamos escuchando</u> el nuevo disco de Vicente Amigo.

a) Juan siempre (discutir) con cualquier p	ersona.
--------------------------------------------	---------

- b) Mientras (vosotros/escribir)_____ la lista, yo ordeno la estantería
- c) (yo/ir) de camino a tu casa.

	d)	Siento que me estoy (poner	r) enferma.	
	e)	Justo estoy (abrir)	tu carta.	
	f)	Los alumnos están (hablar)	con el profesor.	
	g)	¿Por qué te estás (copiar) _	de él la prueba?	
	h)	Me estoy (dormir)	quiero ir a mi camita.	
	i)	Juan se está (ducharse)	en el cuarto de bañ	ю.
	j)		a Venezuela.	
Q.7	_	oleta con los adverbio de olete with adverbs.	comparativos.	5
	e.g. R	icardo es (+) más inteligent	te que Luisa.	
	a) Su	s padres tienen (-)	tiempo libre	_los míos.
	b) Es	tudiamos (=)	como ellos.	
	c) No	osotros comemos (-)	frutas	ella.
	d) Er	es (=)a	mable conmigo	Lucas.
	e) Mi	hermano trabaja (+)		tú.
	f) Ba	ilan (=)	como ella.	
Q.8		be qué está haciendo. e what she is doing. montar la bicicleta, due conducir el coche, traba plantas	• • •	•
	٠			
	e.g. E	Illa está cocinando.		
	ے . د	-		

18/2

	b)						•
	c)						
	-						
	d)						•
	e)						·
	f)						
	g)						·
Q.9		ige la respuest					12
	Cŀ	noose the corre	ct option.		.		
	a)	¿Cómo	::>	llama	?		
		i) tú	II) se	III) te	c/1 ·		
	D)	Mi padre	*** ****	en (una fabrica.		
	,	i) trabaja	ii) trabaja	III) trat	oajais		
	C)	i) son	tres y	y media.	,		
	d)	Cuando tengo t					
		i) bailar				~	
	e)	Carlos y Susana i) tienen	·		treinta y do:	s años.	
	_	i) tienen	. แ) es	III) est	a		
	f)	Todos los sábac	los yo		tarde.		
		i) ievanto	ii) me ievani	.0	iii) me ievanta:		
	g)	Cada sábado m				padres.	
		i) su	ii) sus		iii) suyo		
	h)	A Roberta		el	gato.		
		i) se gusta	ii) le gusta		iii) les gustan		
	i)	Soy estudiante	pero durante	las vaca	ciones estoy		de
		camarera.					
		i) trabajando	ii) trabajar		iii) trabajo		
	j)	La películaes			interesante.		
		i) muy	ii) mucha		iii) muchos		
	k)	Todos los días d	de este mes M	larisa		_ levanta a las	s seis y media.
		i) me	ii) te		iii) se		
	l)	¿	casas ha	y en esta	a calle?		
		¿ i) Cuántas	ii) Cuántos		iii) qué		
Q.10	Co	ompleta el text	o con las pa	labras d	lel recuadro.		3
	Co	mplete the tex	ct with the w	vords g	iven in the bra	acket.	
		visitarno	os hospital	bien p	rima vive ciuc	lad	
	Mi		se II:	ama Fls:	a v		en paris. Se ha
	mı	udado a esa			porque traha	aia como ei	nfermera en ur
		_	de allí. Habla	muv	F - 1 4 - 0 0 0 0 0	el francé	s y siempre viene
	— а		en Na	avidad			- , c.cp. c vicin
0.11		ige las preposi					2
~·		noose the corre					_
	a)	Volvimos a casa	ı de/a		las once para	a/de	la noche

	b) Ve a/en	Ju	uan jugando d	on/de			_ nuestr	o vecino.
Q.12	Forma las pre Form question	_						3
	a) Ellos tienen	la clase a la	as ocho de la	mañana.				
	¿b) Yo estudio e	n una escu	ıela muy gran	de.				?
	¿ c) Nosotros tra	bajamos er	n una compar	íía que se II	lama ABC			?
	خغ							?
Q.13	Complete witl							10
	Mis mejores am	igos	de México	v lucía	orge, Mig	uel y Lu	cía, Jorg	je y Miguel de Costa
	Rica. Yo		_ amigos en	de la escuela	Puer	to I	Rico.	Nosotros en la
	misma clase.							
	Mis amigos y							
	Nosotros							
	Nosotros				muy	conte	ntos	porque
			_ un concierto	especial.				

Bachelor of Dental Surgery – Fourth Year

CONSERVATIVE DENTISTRY AND ENDODONTICS (BDS-CONS-401)

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

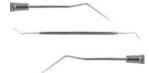
No. of pages: 2

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) Which of the following is a common cause of endodontic treatment failure?
 - i) Overfilling of the root canal
 - ii) Underfilling of the root canal
 - iii) Inadequate cleaning and shaping of the root canal
 - iv) All of the above
 - b) Which of the following instruments is used to measure the working length of a root canal?
 - i) K-file
 - ii) Apex locator
 - iii) Both a and b
 - iv) None of the above
 - c) Name the instrument shown in the diagram:



- i) Williams probe
- ii) DG-16 endodontic explorer
- iii) CPITN probe
- iv) Dental explorer
- d) Which of the following is a sign of a successful endodontic treatment?
 - a) No pain or discomfort
 - b) Radiographic evidence of complete healing
 - c) Normal periodontal probing depths
 - d) All of the above
- e) Which of the following is the most commonly used irrigant in endodontic treatment?
 - i) Chlorhexidine

ii) Hydrogen peroxide

iii) Sodium hypochlorite

iv) EDTA

1×5

- Q.2 Answer the following in brief:
 - a) Discuss endodontic mishaps.

[CO6][L2]

b) Outline management of avulsion.

[CO5][L1] [CO6][L2]

c) Describe stepback with diagrams.d) Explain vital and non vital bleaching.

[CO3][L2]

e) Assess microbiology of periapical lesions.

[CO1][L5] **5×5**

Q.3 Long questions:

PART-B

- Q.4 Multiple choice questions:
 - a) Bluish hue seen in amalgam fillings is due to:
 - i) Leaching of corrosive products into dentinal tubules
 - ii) No dentine support under the enamel
 - iii) Translucency of enamel
 - iv) All of the above
 - b) Why do you bevel the pulp-axial line angle in a class 2 inlay cavity?
 - i) To assist withdrawal of wax pattern
 - ii) To give greater strength in that region of inlay
 - iii) To avoid a weak sharp edge in the investment mold
 - iv) None of the above
 - c) What is the purpose of a matrix system in conservative dentistry?
 - i) To provide mechanical retention
 - ii) To reduce microleakage
 - iii) To increase the strength of the restoration
 - iv) To create anatomic contours
 - d) Which of the following is a characteristic of the mercury component of dental amalgam?
 - i) It is completely eliminated from the body after placement
 - ii) It can cause toxicity if ingested in large amounts
 - iii) It is essential for the strength of the restoration
 - iv) It is bonded to the tooth structure during placement
 - e) Which of the following materials is used to bond composite to the tooth structure?
 - i) Filler

ii) Light

iii) Adhesive resin

iv) Glass ionomer cement

1×5

- Q.5 Answer the following in brief:
 - a) Discuss etiology and management of abrasion.

[CO3][L2]

b) Describe casting defects.

[CO2][L2]

c) Outline common problems during composite restoration.

[CO3][L1]

d) Describe adhesion.

[CO3][L2]

e) Analyze polymerization shrinkage.

[CO2][L4] **5×5**

Q.6 Long question:

Discuss about cavity designs in inlay restoration.

[CO4][L2] **10**

Bachelor of Dental Surgery – Third Year

GENERAL MEDICINE (BDS-GEME-301)

Time: 3 hrs. Marks: Max 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 Multiple choice questions: 0.1 a) Which about HIV is not correct? i) Caused by RNA virus ii) Commonest mode of transmission is through sexual intercourse iii) CD4 count is affected iv) Montoux test is diagnostic b) Which one of these drugs does not cause gingival hyperplasia? i) Phenytoin ii) Nifedipine iii) Cyclosporin iv) Rifampicin c) Which one of these is not a part of H.pylori eradication regime? i) Pantoprazole ii) Clarithromycin iii) Clindamycin iv) Metronidazole d) Which one of these is not a cause of cirrhosis of liver? i) Wilson's disease ii) Primary biliary cirrhosis iii) Viral hepatitis A iv) Alpha-1 anti trypsin deficinecy e) Which is not true about hypocalcemia? i) Caused by hyperparathryroidism ii) Tetany is present iii) Chvostek's sign can be demonstrated iv) Convulsions can occur 1×5 Write short notes on: Q.2 a) C/F of cushing's syndrome. b) Peripheral signs of AR. c) Herpes zoster. d) Secondary hypertension. e) Complications of uncontrolled diabetes. 5×5 Q.3 Discuss acute myocardial infarction in detail. 10 PART-B Multiple choice questions: Q.4 a) Which is not a correct statement about diphtheria? i) Caused by corynebacterium diphetheriae ii) There is formation of pseudo membrane at the site of infection iii) Bull's neck diptheria is a serious concern iv) Ciprofloxacin is the drug of choice b) Which one of these is not a cause for tachyarrythmia? i) AF ii) VT

iii) CHB iv) SVT

- c) Which one of these is not true about CPR?
 - i) Given to patient with sudden cardiac arrest.
 - ii) Given to patient with vasovagal syncope.
 - iii) Mouth to mouth breathing is also given.
 - iv) A 30:2 ratio of chest compression and mouth to mouth breathing is choosen.
- d) Which is not seen in pellagra?
 - i) Diarrhoea

ii) Dermatitis

iii) Magenta tongue

- iv) Dementia
- e) Which one of these drugs is avoided in a patient of seizure disorder?
 - i) Ceftriaxone

ii) Amlodepin

iii) Ethambutol

iv) Ofloxacin.

1×5

Q.5 Write short notes on:

- a) Jacksonian march.
- b) Nephrotic syndrome.
- c) Haemophilia.
- d) HAART.
- e) Calcium metabolism.

5×5

Q.6 Define and classify epilepsy. Discuss the management of status epilepticus.

10

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.

	Attempt Paki-a and Paki-b in the	e separate answer sneets.	
	<u>PA</u>	IRT-A	
Q.1	Multiple choice questions: a) Which of the following is NOT a si i) Calor iii) Loss of function	gn of acute inflammation? ii) Rubor iv) Pallor	(CO2,BL2)
	b) Which of the following is feature ofi) Localisediii) Metastasis	,	(CO3,BL1)
	c) ATROPHY is: i) Increased size iii) Both of the above	ii) Increased cellularity iv) None of the above	(CO2,BL2)
	d) Vitamin D deficiency causes.i) Ricketsiii) Night blindness	ii) Scurvy iv) None of the above	(CO3,BL3)
	e) Most common cause of anemia ini) Aplastic anemia	India is: ii) Megaloblastic anemia	(CO4,BL5)
	iii) Iron deficiency anemia	iv) Anemia of chronic infla	mmation 1×5
Q.2	Write short notes on:a) Differentiate between dry and wetb) Pathogenesis of oedema.c) Routes of metastasis.d) Classification of anemia.e) Granulomatous inflammation.	gangrene.	(CO2,BL4) (CO3,BL4) (CO5,BL2) (CO4,BL1) (CO5,BL1) 5×5
Q.3	Define 'inflammation'. Write the five	signs of acute inflammation.	Write in detail the

Q.3 Define 'inflammation'. Write the five signs of acute inflammation. Write in detail the vascular events in acute inflammation. (CO6,BL3) **10**

PART-B

- Q.4 Multiple choice questions:
 - a) Which of the following is hemolytic anemia? (CO3,BL2)

i) Iron deficiency anemia

ii) Aplastic anemia

iii) Sickle cell anemia iv) All of the above.

b) Reed Sternberg cell is a feature of: (CO4,BL5)

i) Non Hodgkins lymphomaiii) Acute Lymphoblastic leukemia

ii) Hodgkins lymphomaiv) Chronic myeloid leukemia.

c) An example of fat embolism is:

(CO6,BL1)

i) Fracture of long bone

ii) Deep vein thrombosis

iii) Myocardial infarction

iv) None of the above.

d) Which of the following is an example of granulomatous disease? (CO5,BL2)

i) Tuberculosis

ii) AIDS

	iii) Systemic lupus erythematosuse) Which of the following is NOT foundi) Langhans Giant celliii) Epithelial cell	iv) Allergy in Tubercular granuloma? ii) Lymphocyte iv) Epitheliod cell	(CO3,BL2) 1×5
Q.5	 Write short notes on: a) Lab diagnosis of Iron deficiency ane b) Chronic myeloid leukemia. c) Pathogenesis of diabetes mellitus. d) Leukoplakia. e) Osteoclastoma 	mia.	(CO6,BL6) (CO5,BL4) (CO3,BL2) (CO2,BL1) (CO1,BL1) 5×5
Q.6	Define 'necrosis'. Enumerate various t Write the difference between necrosis a	• •	NE example of each. (CO1,BL5) 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 the PART-A and PART-B in the separate answer sheets.

PART-A

- Q.1 Multiple choice questions:
 - a) Hemophilia is identified by:

(CO4,BL3)

- i) Most common type of Hemophilia A
- ii) Acquired hemophilia could be associated with autoimmune disorders, pregnancy, liver diseases, vit K deficiency and DIC (Disseminated intravascular coagulation)
- iii) Males are more commonly affected than females in both hemophilia A and B.
- iv) All of the above.
- b) Examples of indications for a biopsy could be:

(CO4,BL2)

- i) Any lesion persisting for more than two weeks with no apparent aetiology
- ii) Any inflammatory lesion not responding to treatment after 10-14 days
- iii) Persistent hyperkeratotic changes in surface tissues.
- iv) All of the above.
- c) Ludwig's angina is identified by:

(CO2, BL5)

- i) Caused by virulent streptococcal infection associated with anaerobic organisms.
- ii) Could be associated with carcinoma of the floor of the moluth and/or Diabetes mellitus, and patients on chemotherapy.
- iii) Poor dental hygiene, Dental caries or a recent dental treatment like tooth extraction could be the precipitating factor.
- iv) All of the above.
- d) Examples of complication due to injuries could be:

(CO3,BL2)

- i) Infections
- ii) Keloid formation
- iii) Deformity and disfigurement
- iv) All of the above
- e) Examples of an arterial bleed is:

(CO1, BL2)

- i) Continuous flow and dark colored blood
- ii) Spurting of bright red blood.
- iii) Only slow ooze

iv) All of the above

1×5

- Q.2 Answer the following in brief:
 - a) Classify different types of obstructive shock, and write what you know about tension pneumothorax. (CO3,BL5)
 - b) Categorize different levels of cervical lymph nodes.

(CO4,BL4)

c) Outline the clinical features of tetanus.

(CO1,BL2) (CO1,BL1)

d) Describe what you know about erysipelas. e) Outline what you know about a carbuncle.

(CO4,BL4) **5×5**

Q.3 Classify different types of wound healing. Describe in a tabular form the differences between a hypertrophy scar and a keloid. (CO4,BL3) **10**

<u>PART-B</u>

- Q.4 Multiple choice questions:
 - a) Neurogenic shock is not identified by:

(CO4,BL1)

- i) Pale and cool skin
- ii) Tachycardia with features of shock
- iii) Bradycardia with features of shock
- iv) Decreased urine output..
- b) Examples of complication due to injuries could be:

(CO4,BL2)

- i) Infections
- ii) Keloid formation
- iii) Deformity and disfigurement
- iv) All of the above.
- c) Interpret which one of the following statement is correct:

(CO4,BL2)

- i) Both trigeminal and facial nerves are purely motor nerve.
- ii) Interictal numbers is an important feature of 7th nerve palsy.
- iii) Unilateral LMN palsy of 7th nerve given rise to bilateral symptoms and signs.
- iv) Bilateral trigeminal nerve palsy in a young person could be a sign of multiple sclerosis.
- d) Aetiology of Secondary haemorrhage is primarily identified by:

(CO4,BL1)

- i) Slippage of ligature
- ii) Primarily due to infection after around 7 days post-surgery
- iii) Occurs within 24 hours of post-surgery
- iv) All of the above
- e) SIRS (systemic inflammatory response syndrome) is recognised by: (CO4, BL2)
 - i) Temp > 38/<36 degree celsius
 - ii) Tachycardia >90/min and Tachypnoea > 20/min
 - iii) TLC > 12,000/<4000 / cmm of blood or > 10% band cells in peripheral smear
 - iv) All of the above.

1×5

- Q.5 Answer the following in brief:
 - a) Categorize lateral neck swellings and write what you know about cystic hygroma.

(CO4,BL4)

- b) Outline the aetiology, clinical features and management of anaphylaxis. (CO1,BL1)
- c) Describe what you know about actinomycosis.

(CO4,BL4)

d) Outline the features of the Marjolin's ulcer.

(CO1,BL1)

- e) Summarize what you know about the differences between troisier's sign, trousseus sign, and trousseu's syndrome. (CO3,BL3) **5**×**5**
- Q.6 Classify different zygomatic-maxillary complex fractures. Describe the aetiology, clinical features, diagnosis and management of these fractures. (CL4,BL4) **10**

Bachelor of Dental Surgery – First Year

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

	CLITETICS (DE	os moant 101)	
Time:	3 hrs.		Max Marks: 80 <i>No. of pages: 2</i>
Note:	Question Paper has TWO parts: PAR each question. All questions are compulsory. Draw to Attempt PART-A and PART-B in the	RT-A and PART-B. Mark The diagrams where ever	s are indicated against necessary.
		<u>RT-A</u>	
	Multiple choice questions: a) All of the following muscles of palate i) Palatoglossus iii) Tensor palati b) All of the following structures pass the i) 7th cranial nerve iii) 9th cranial nerve c) All of the following nerves carry taste i) Vagus nerve ii) Facial nerve d) All of following sinuses open in midd i) Sphenoidal sinus iii) Frontal Sinus e) All of the muscles are derived from the iii) Stylohoid iii) Muscles of facial expression	ii) Palatopharyngeus iv) Levator palatini nrough internal acoustic ii) 8th cranial nerve iv) Labrynthine vessels e sensation except: ii) Hypoglossal nerve iv) Glosopharyngeal ner le meatus except: ii) Maxillary sinus iv) Middle ethmoidal sin	meatus except: rve
	Answer the following in brief: a) Primitive streak. b) Blood supply of long bone. c) Ansa cervicalis. d) Innervation of tongue. e) Otic ganglion.		5×5
Q.3	Classify `Epithelium'. Draw a labelled dia	gram of each type.	10
	PAR	RT-B	
	 Multiple choice questions: a) All of the following are layers of the i) Skin iii) Loose areolar tissue b) All of the following structures pass the contraction of the following structures pass the contraction of the following nerves carry secretion. c) All of the following nerves carry secretion iii) Nerve of pterygoid canaliii) Chorda tympani 	 ii) Aponeurosis iv) Endosteum nrough superior orbital fisit ii) Nasociliary nerve iv) Frontal nerve etomotor fibres except: 	ve

d) Choose the incorrect statement regarding mandibular nerve:

- i) It passes through foramen ovale
- ii) It is a branch of maxillary nerve
- iii) It has anterior and posterior divisions
- iv) It is present in infratemporal fossa
- e) Choose the correct statement regarding external carotid artery:
 - i) It arises at the level of superior border of thyroid cartilage
 - ii) Occipital artery and posterior auricular arteries are its branches
 - iii) It has no branches in the neck
 - iv) Inferior thyroid artery is one of the branches of ECA.

1×5

- Q.5 Write short notes on the following:
 - a) Turner syndrome.
 - b) Fertilization.
 - c) Lingual nerve.
 - d) Investing layer of deep cervical fascia.
 - e) Maxillary sinus.

5×5

Q.6 Describe articular facets, ligaments, relations, movements and applied anatomy of *TM* joint. **10**

Bachelor of Dental Surgery – Second Year

GENERAL MICROBIOLOGY (BDS-MBIO-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 the PART-A and PART-B in the separate answer sheets.

PART-A

- Q.1 Multiple choice questions:
 - a) What is the use of real time PCR?

(L 2,CO2)

- i) It is a technique used to monitor the progress of a PCR reaction in real-time.
- ii) A relatively small amount of PCR product (DNA, cDNA or RNA) can be quantified.
- iii) It is based on the detection of the fluorescence produced by a reporter molecule which increases, as the reaction proceeds.
- iv) All of the above.
- b) Identify a non motile bacterium?

(L1,CO1)

i) E.Coli

ii) S.Typhi

iii) K. pneumoniae

- iv) P.mirabilis
- c) In thyroid autoimmunity, an antibody causing type V hypersensitivity may be present and is directed against: (L3,CO2)
 - i) Thyroglobulin.
 - ii) Thyroid stimulating hormone (TSH) receptor.
 - iii) Acetylcholine receptor.
 - iv) Thyroxine.
- d) IqA in seromucous secretions is?

(L3,CO2)

- i) Has no J-chain.
- ii) Has no secretory piece.
- iii) Is dimeric.
- iv) Activates the classical complement pathway.
- e) Name the bacteria which has an endoflagella?

(L3,CO3)

i) E.coli

ii) P. vulgaris

iii) S. Paratyphi A

iv) T. pallidum

1×5

- Q.2 Answer the following in brief:
 - a) Describe call wall of gram positive and gram negative bacteria and support your answer with diagrams. How will you differentiate them? (L1,CO1)
 - b) Tabulate the difference between T cells and B cells.

(L3,CO2)

c) Briefly describe the moist heat method of sterilisation.

(L2,CO5)

- d) What are complements? Classify complement pathway and describe in detail the classical pathway. Draw a flow chart and explain it. (L4,CO3)
- e) Briefly describe the types of ELISA with its applications. Support your answer with diagrams. (L4,CO5) **5×5**
- Q.3 Long questions:

Classify hypersensitivity reactions. Describe in detail type IV hypersensitivity.

(L6,CO4) 10

PART-B

Q.4 Multiple choice questions:

A. Cryptococcosis is a disease of which microorganism?

(L2,CO5)

i) Bacteria

ii) Fungi

iii) Protozoa

iv) Virus

- b) A type of cell culture that can reproduce for an extended number of generations and is used to support viral replication is a:
 - i) Primary cell line

ii) Diploid fibroblast cell line

iii) Continous cell line

iv) Organ culture

c) HIV virus has a protein coat and a genetic material which is?

(L3,CO4)

i) Double stranded DNA

ii) Single stranded DNA

iii) Double stranded RNA

iv) Single stranded RNA

d) Name the selective media for Neisseria gonorrheae?

(L1,CO3)

i) Lowenstein Jenson's medium

ii) Loffler's serum slope

iii) Thayer Martin agar

iv) Mueller Hinton agar

- e) A 40 years old patient who has clinical symptoms pulmonary tuberculosis for the past two months. The chest x-ray examination revealed a typical feature of tuberculosis infection. A photochromogenic (orange pigment when exposed to UV light) acid-fast rod bacterium was isolated from the sputum sample. The identified bacteria is:

 (L3,CO5)
 - i) Mycobacterium avium

ii) Mycobacterium tuberculosis

iii) Mycobacterium kansasii

iv) Mycobacterium leprae

1×5

Q.5 Answer the following in brief:

- a) Write briefly on actinomycosis and add a note on 'its laboratory diagnosis'. (L3,CO3)
- b) Describe the laboratory diagnosis of infections caused by HBV.

(L3,CO4)

- c) Describe pathogenicity and laboratory diagnosis of infections caused by staphylococcus aureus. (L5,CO4)
- d) Describe the life cycle and laboratory diagnosis of kala Azar. Justify your answer with diagrams and label them. (L5,CO5)
- e) Describe briefly mycetoma and add a note on 'its laboratory diagnosis'. Support your answers with a diagram. (L5,CO3) **5**×**5**

Q.6 Long questions:

Classify 'mycobacterium'. Write in detail the laboratory diagnosis of pulmonary and extra pulmonary tuberculosis. (L4,CO5) **10**

Bachelor of Dental Surgery - Fourth Year

ORAL MEDICINE AND RADIOLOGY (BDS-ORME-401)

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:

(1X5)

- a) Which one of the following is the characteristic feature of oral lichen planus?
 - i) White patch or plaque
- ii) Marble like appearance

iii) Wickham's striae

- iv) None of above
- b) Which of the following is the feature of Oral sub mucous fibrosis?
 - i) Burning sensation

- ii) Blanching of buccal mucosa
- iii) Reduced tongue protrusion
- iv) All of above
- c) Which one of the following condition is least likely to be an associated with increased risk of oral cancer?
 - i) Actinic cheilosis

ii) Erythroplakia

iii) Leukoplakia

- iv) Leukoedema
- d) The most aggressive and destructive cyst is:
 - i) Periapical cyst

- ii) Dentigerous cyst
- iii) Globulomaxillary cyst
- iv) Nasopalatine cyst
- e) Cyst arising from dental lamina is:
 - i) Radicular cyst

ii) Paradental cyst

iii) Eruption cyst

iv) Glandular Odontogenic

O.2 Write short notes on:

- a) Hairy leukoplakia.
- b) Staging in Oral sub mucous fibrosis.
- c) Midline palatal swelling.
- d) Recurrent apthous stomatitis.
- e) Oral Manifestations of Anemia.

5×5

1×5

Q.3 Long questions:

Classify fibro-osseous lesions. Write in detail about etiology, clinical and radiographic features, investigations and management of fibrous dysplasia.

PART-B

Q.4 Multiple choice questions:

b)	Sunburst appearance on radiograph is s i) Osteosarcoma iii) Osteomalacia Hypoplastic defects in the enamel appea i) Brown spots running horizontally ii) Sclerotic areas over the surface of to iii) Radiolucent areas iv) Radiopaque areas	ii) iv) ars i	Osteofibroma Osteopetrosis n radiograph as:	
d) e)	An oval radiolucent area between the api i) Nasopalatine foramen iii) Nasal fossa In which radiograph apical root fracture i) Intraoral periapical radiograph iii) Bitewing radiograph The presence of pulp stones on the radi i) Acute pulpits iii) Chronic periodontitis	ii) iv) car ii) iv) iogra ii)	Lingual Foramen Incisive Canal be seen:	5
a) b) c) d)	te short notes on: Garre's osteomyelitis. Collimation. SLOB rule. SMV view. Grids		5×:	5
Des	ng questions: cribe in detail principle of panoramic antages and disadvantages of panorami		diography. Write in detail about indication diography. 1 0	_

Q.5

Q.6

Bachelor of Dental Surgery – First Year

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

	(PD2-OKPA-101)	
Time: 3	3 hrs. Max Marks: No. of page	
Note:	, 3	
	<u>PART-A</u>	
	Multiple choice questions: a) What is the FDI system is otherwise called i) ISO notation ii) Quadrant system iii) Two digit system iv) Both i) and ii) b) What is the Lingual prominence in anterior tooth called? i) Ridge ii) Cusp iii) Tubercle iv) Cingulum c) Which is the first permanent tooth to erupt in the oral cavity? i) First molar ii) Central incisor iii) Both i) and ii) iv) None of the above d) Which o the following is NOT a cusp found on three-cusped type premolars? i) Mesiobuccal ii) Buccal iii) Mesiolingual e) In an electron microscopic section, the basement membrane consists of: i) Lamina lucida ii) Lamina densa iii) Lamina reticularis iv) Both i) and ii)	1×5
	Answer the following in brief: a) Discuss the theories of tooth eruption. b) Explain the development of mandible. c) Enumerate differences between permanent maxillary and mandibular canine. d) Discuss the theories of pair transmission in dentin. e) Discuss the keys of occlusion.	5×5
-	Long questions: Classify oral mucous membrane. Describe in detail about specialized mucosa.	10
	<u>PART-B</u>	
•	Multiple choice questions: a) Where is the Tomes' granular layer? i) Seen in radicular dentin ii) Seen in coronal dentin iii) Represents coalescing and looping of dentinal tubules iv) Both i) and ii) b) Reciprocal induction is seen between the:	

ii) Cementoblast and osteoblast

iv) None of the above

i) Cementoblast and odontoblast

i) Dentin formed after root completionii) Dentin formed before root completion

iii) Ameloblast and odontoblast

c) Secondary dentin is related to:

- iii) Represents coalescing of dentin tubules
- iv) None of the above
- d) Development of the first permanent molar is initiated at:
 - i) Birth

ii) Fourth month, in utero

iii) 6 years of age

iv) None of the above

- e) What is overjet?
 - i) Horizontal overlap of maxillary and mandibular anteriors
 - ii) Vertical overlap of maxillary and mandibular anteriors
 - iii) Buccal overlap of maxillary and mandibular anteriors
 - iv) Buccal overlap of maxillary and mandibular posteriors

1×5

Q.5 Answer the following in brief:

- a) Illustrate with diagrams principal fibers of periodontal ligament.
- b) Describe HERS.
- c) Illustrate with diagrams and discuss the stages of life cycle of Ameloblasts.
- d) Enumerate and discuss the functions of pulp.
- e) Discuss formation of saliva.

5×5

Q.6 Long questions:

Illustrate with diagrams and describe morphology of permanent mandibular 1^{st} molar from all aspects.

Bachelor of Dental Surgery – Third Year

ORAL PATHOLOGY, MICROBIOLOGY AND FORENSIC ODONOTOLOGY (BDS-ORPA-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 the PART-A and PART-B in the separate answer sheets.

PART-A

- Q.1 Multiple choice questions:
 - a) A patient has multiple intestinal polyps, cutaneous melanocytic macules, rectal prolapse and gynecomastia. These features are usually associated with:

(BL-4,CO-4)

- i) Gardner syndrome
- ii) Goltz-Gorlin syndrome
- iii) Peutz-Jeghers syndrome
- iv) Grinspan syndrome
- b) The following organism is identified along with fusiform bacteria to cause:

(BL-1, CO-2)

- i) Actinomyces israelii
- ii) Actinomyces naeslundii
- iii) Treponema pallidum
- iv) Borrelia vincenti
- c) The giant cells found in a tubercular granuloma are called as:
- (BL-3, CO-3)

- i) Langerhans giant cells
- ii) Langhans giant cells
- iii) Touton giant cells
- iv) Reed-Sternberg Giant cells
- d) The most probable diagnosis for multiple translucent vesicle like lesions on the anterior 2/3rd of tongue, associated with macroglossia could be: (BL-4, CO-6)
 - i) Neurilemmoma

ii) Neurofibroma

iii) Lymphangioma

- iv) Pemphigus vulgaris
- e) Select a false statement regarding calcifying odontogenic cyst from below given statements. (BL-5, CO-6)
 - i) Numerous ghost cells are seen in connective tissue wall
 - ii) It is seen mostly in the anterior maxilla and mandible
 - iii) Usually associated with an impacted/unerupted tooth
 - iv) Cyst lining appears ameloblastomatous

1×5

- Q.2 Answer the following in brief:
 - a) Explain CREST syndrome.

(BL-2, CO-4)

b) Describe Garre's Osteomyelitis.

(BL-1, CO-1)

c) Discuss in detail about internal resorption.

- (BL-2, CO-1)
- d) Illustrate the Histopathology of enamel and dentin caries.
- (BL-4, CO-3)
- e) List and explain the clinical and histopathological features of Paget's disease of bone. (BL-1, CO-2) **5×5**
- Q.3 Define and enumerate Pre-malignant lesions and conditions. Write briefly about etiology, clinical features and histology of leukoplakia. (BL-2, CO-2) **10**

PART-B

Q.4 Multiple choice questions:

	a)	surrounding the crown of an une diagnosed as:	_	•
		i) Conventional ameloblastoma iii) Squamous odontogenic tumor	•	(22 37 33 27
	b)	Trisomy 21 syndrome is also recogni i) Down	sed as syndrome. ii) Apert	(BL-1, CO-4)
	c)	iii) KlinefelterThe major antigens associated with5.	iv) Ehlers-Danlos cicatricial pemphigoid are	_ and Laminin (BL-4, CO-2)
		i) Bullous pemphigoid antigen 2 iii) Cicatricial pemphigoid antigen	ii) Bullous pemphigoid antigeniv) Desmoglein	
	d)	Cretinism and myxedema are related i) Thyroid hormones iii) Adrenal medullary hormones	I to the hyposecretion of: ii) Growth hormones iv) Parathormone	(BL-5, CO-1)
	e)	Choose the lesion in which exfoliative i) Fibroma	,	(BL-5, CO-6)
		iii) Pemphigus vulgaris	iv) Sickle cell anemia	1×5 1×5
Q.5		swer the following in brief:		
	b) c) d)	Describe in detail about Adenamatoic Name the subtypes of Actinomycosis Classify bitemarks and explain their i Summarise the developmental anom Explain the radiographic features and	Write about them in detail.mportance in forensic odontolog alies associated with tongue.d histopathology of Odontogenic	(BL-1,CO1) y.(BL-4,CO-5) (BL-2,CO-1) Keratocyst.
			(BL-2	2, CO-3) 5×5
Q.6		assify salivary gland tumors. Explair stopathology of Pleomorphic Adenoma	— · · · · · · · · · · · · · · · · · · ·	features and L-4, CO-6) 10

Bachelor of Dental Surgery – Second Year

FORENSIC ODONTOLOGY (BDS-ORPA-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 Multiple choice questions:

a) Neonatal line determines:

(BL-3, CO-1)

- 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
- v) Radiographic defect
- b) Lost personhood is associated with which of the following conditions: (BL-4,CO-2)
 - i) Decomposition 1

ii) Mutilation

iii) Burning

iv) Burial

- v) All of these
- c) Gender identification can be best determined by which of the following tooth. (BL-3,CO-2)
 - i) Canine

ii) Premolar

iii) Central incisor

- iv) Third molar
- d) Which feature amongst the following predicts the age of human skeleton at about 25 years. (BL-3,CO-2)
 - i) Beginning fusion of all of the epiphyses of the post cranial skeleton
 - ii) Fusion of a suture on the base of a skull
 - iii) All of the teeth, including the 3rd molars, are extensively worn
 - iv) The 3 individual bones of the innominate (ischium, pubis, and Ilium) fuse in the hip joint socket
 - v) None of the above
- e) A boy has 20 permanent teeth and 8 temporary teeth. Calculate his age:

(BL-3, CO-4)

i) 9 years

ii) 10 years

iii) 11 years

iv) 12 years

v) 13 years

1×5

O.2 Answer the following in brief:

a) Review Demirjian's method of radiographic age estimation.

(BL-2, CO-3)

b) Compare and contrast between cheiloscopy and palatoscopy.

(BL-4, CO-4)

c) Illustrate methods of denture marking.

(BL-3, C02)

d) Discuss concept of chain of custody.

(BL-2, CO-5) (BL-5, CO-4) **6×5**

e) Create a forensic report.

Q.3 Long questions:

Define 'forensic odontology'. Assess the roles and responsibilities of a forensic odontologist. (BL-6, CO-5) **15**

<u>PART-B</u>

Q.4	Multiple choice questions:
-	a) I am credited with making the earliest recorded case
	lived in Ancient Rome around 15-59 AD. I was marrie

I am credited with making the earliest recorded case of dental identification. I lived in Ancient Rome around 15-59 AD. I was married to the Emperor Claudius. I ordered my soldiers to kill his mistress and bring me her head as proof of death. Who am I?

(BL-2, CO-3)

Who am I? i) Agripina

ii) Urgulanilla

iii) Aelia

iv) Messalina

b) Forensic dentistry involves the study of teeth with the intention of providing facts to be used as evidence in court. What is another name for this field of study?

(BL-3, CO-1)

i) Forensic Anrhropology

ii) Forensic Odontology

iii) Forensic Palynology

iv) Forensic Entomology

c) Although I am more well-known as a silversmith who indulged in nocturnal horseriding, I was also a practising dentist. I performed the first documented case of forensic dental identification in America. Who am I? (BL-4, CO- 2)

i) George Washington

ii) Paul Revere

iii) Benjamin Franklin

iv) Abrahim Lincoln

d) I ascended the English throne in 1066 and was the first of the Norman kings. According to legend, the first use of bite-mark identification can be attributed to me. Who am I? (BL-3, CO-2)

i) Henry –I

ii) King Norman.

iii) Richard -I

iv) William the conquerer

e) How many teeth does a human adult normally have?

(BL-3, CO-4)

i) 28

ii) 32

iii) 30

iv) 27

1×5

Q.5 Answer the following in brief:

a) Discuss 'CAPMI'. (BL-2, CO-1)

b) Explain step wise procedure of ameloglyphics.

(BL-2, CO-3)

c) Propose role of tongue prints in forensic investigations.

(BL-5, CO-2) (BL-6, CO-5)

d) Judge the role of dentists in cases of child abuse.

(52 0) 6 5

e) Underline the importance of record keeping in dental office.

(BL-1, C0-3) **6×5**

Q.6 Long questions:

Discuss in detail about classification systems, variables affecting, methods of recording and analysis of bite mark evidence. (BL-2, CO-1) **15**

Bachelor of Dental Surgery – Fourth Year

ORAL AND MAXILLOFACIAL SURGERY (BDS-ORSU-401)

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.

Q.1 Multiple choice questions:

A periapical infection of a mandibular third molar may spread by direct extension to the:

(BL-1 CO-1 PO-1)

Parapharyngeal space. ii) Submandibular space. Pterygomandibular space Submental space b) Movements are possible with bilateral sagittal split osteotomy except: (BL-1 CO-1 PO-1) Anterior advancements Set back Rotation iv) Transverse (BL-1 CO-1 PO-1) c) Hanging drop appearance on radiograph: Blow out fracture Antrolith

Nasal polyp d) Following a local anesthetic injection, anesthetic effects will disappear and reappear in a definite order. Which sensation disappears first?(BL-1 CO-1 PO-1)

Zvgomatic

Deep pressure Le Fort I or Guerin fracture is a: (BL-1 CO-1 PO-1) Fracture of the zygomatic arch.

Horizontal fracture of the maxilla.

Fracture of the malar complex involving the floor of the orbit.

Pyramidal fracture of the maxilla. 1×5

Answer the following in brief: Q.2

a) What do you understand by local anaesthetic toxcity?

(BL-1 CO-1 PO1) (BL-1CO-2PO-1)

b) Discuss the management of horizontally unfavourable angle fractures. c) A male adult patient presented with moderate fever, severe trismus and slight extra oral edema beneath the angle of the mandible are observed. Intra orally, edema of the soft palate of the affected side is present, as is displacement of the uvula and lateral pharyngeal wall, while there is difficulty in swallowing. Mandibular 3rd molar was grossly infected and there was pus discharge form it. Write diagnosis of case with its (BL-4CO-2PO-3)

d)Discuss principles of elevators.

(BL-1 CO-1 PO-1)

Summarize protocol of osteoradionecrosis.

(BL-1 CO-1 PO-1) 5×5

Q.3 An 8-year-old girl comes with an asymmetrical jaw line; on examination, the chin is deviated to the affected side on opening her mouth, the patient has cross bite on ipsilateral side and class II malocclusion on the affected side. What is your diagnosis for this? Enumerate diseases of TMJ. (BL-2 CO-4 PO-3) 10 Describe the disease.

PART-B

Q.4 Multiple choice questions:

Most common complication of rheumatoid arthritis involving TMJ is: (BL-1 CO-1 PO-1) Subluxation Recurrent dislocation MPDS iv) In lingual split technique the instrument used to cut the tooth is: (BL-1 CO-1 PO-1) b) Periosteal elevator . Osteotome

Chisel Surgical bur Which one is treated with Carnoy's solution after enucleation? (BL-1 CO-1 PO-1)

OKC

Mural Ameloblastoma

Aneurysmal bone cyst

Odontogenic myxoma drop appearance on radiograph

Hemlich procedure" is for:

(BL-1 CO-1 PO-1) Removing foreign body airways obstruction.

Opening the mouth Maintain the breathing. iii)

For expired air resuscitation.

Hayton's Williams forceps is used for:

(BL-1 CO-1 PO-1) Coronoid fractures Zygomatic fractures

Maxilla fractures Nasal fractures 1×5

Q.5 Answer the following in brief:

A female adult patient underwent extraction of impacted mandibular 3 molar 2 days back. Today, she presented with severe throbbing pain in the same region. She is taking prescribed medicines as per instruction of the doctor, but the pain is persistent. There is no associated swelling, but bare bone can be seen clinically. What is the diagnosis and its treatment? (BL-4 CO-2 PO-3)

Enumerate pre prosthetic surgical procedures.

(BL-1 CO-1 PO-1) c)What do you understand by Partsch I procedure. (BL-1 C0-2 PO-1) (BL-3 C0-1 PO-3)

Discuss surgical management of ameloblastoma.

(BL-1 CO-1 PO-1) 5×5

What is sialography?

Q.6 Patient comes to you with a history of RTA. On examination there is swelling and edema around the right eye with subconjunctival hemorrhage and numbness over the right cheek area. What type of fracture do you think this is? Write in detail about its clinical features, diagnostic methods and management of such a fracture.

(BL-2 CO-4 PO-3) 10

Bachelor of Dental Surgery – Fourth Year

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS (BDS-ORTH-401)

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) Line of occlusion in the lower arch as defined by Edward H angle is:
 - i) Line that passes through the central fossa in the lower arch.
 - ii) Line that passes through the palatal cusp in the lower arch.
 - iii) Line that passes lingual to incisors in the lower arch.
 - iv) Line that passes through the buccal cusps and the incisal edges in the lower arch.
 - b) The head size holds what proportion of total body size in adulthood as shown in the cephalocaudal gradient of growth:

i) 30%

ii) 12%

iii) 50%

iv) 20%

- c) To camouflage for a skeletal class III base, the natural compensation in teeth that occurs is:
 - i) Lower proclined, upper retroclined.
 - ii) Lower retroclined, upper proclined.
 - iii) Both lower and upper are retroclined.
 - iv) Both lower and upper are proclined.
- d) A large tongue in a patient could lead to:
 - i) Mandibular prognathism.
- ii) Mandibular constriction.
- ii) Mandubular retrognathism.
- iv) Maxillary constriction.
- e) The width of the central incisor should be what percentage of its total height
 - i) 60%

ii) 70%

iii) 80%

iv) 90%

1×5

Q.2 Write short notes on:

- a) Describe the various means to reinforce anchorage to prevent mesial migration of molars during retraction.
- b) Explain the consequences when heavy forces are applied during orthodontic tooth movement.
- c) Write about the various appliances used to produce expansion of the maxilla.
- d) Uses of Temporary Anchorage devices in various clinical situations.
- e) A 7 year old girl reports to the OPD with a habit of thumb sucking. Describe the management of the case. **5×5**

0.3 Long questions:

> Write in detail about extra oral examination in orthodontics. Cover both frontal and profile examination and draw appropriate diagrams. 10

PART-B

- Q.4 Multiple choice questions:
 - a) If a removable appliance is worn less than 4 to 6 hours per day, it will produce no orthodontic effects because:
 - i) Second messenger (cAMP) appear after about 4 hours of sustained pressure.
 - ii) Primary messangers appear after about 4 hours of sustained pressure.
 - iii) Tertiary messangers appear after about 4 hours of sustained pressure.
 - iv) Tooth movement is not correlated with chemical messangers.
 - b) The point at which permanent deformation first observed is:
 - i) Proportional limit.
- ii) Yield strength.
- iii) Ultimate strength.
- iv) Failure point.
- c) Petit type facemask is used:
 - i) Class I Malocclusion.
 - ii) Class II malocclusion.
 - iii) Class III malocclusion.
 - iv) Class I malocclusion with crowding.
- d) The average leeway space available in each half of the maxilla is approximately:
 - i) 0.9mm ii) 2.9mm iii) 4mm iv) 6.9mm
- e) The Y axis in cephalometric is used to analyze the:
 - i) Maxillary growth.
- ii) Mandibular growth.
- iii) The inclination of palatal plane. iv) The cranial base angle.

1×5

- Q.5 Answer the following in brief:
 - a) Recent advances in orthodontics.
 - b) How would you select an ideal case for functional appliance therapy from the OPD?
 - c) How do you quantify the amount of crowding with the help of orthodontic study
 - d) Difference between rapid and slow maxillary appliance.
 - e) What are the consequences of malocclusion?

5×5

Q.6 Long questions:

A 12 year old class II div1 malocclusion girl, with SNB of 74⁰ and SNA of 82⁰, reports to your clinic with an overjet of 7mm and a deep bite. What is your diagnosis? Which appliance would you deliver to treat the malocclusion? Write in detail about the clinical management of the case.

Bachelor of Dental Surgery – Fourth Year

PEDODONTICS AND PREVENTIVE DENTISTRY (BDS-PEDO-401)

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) Diffusion hypoxia is associated with:
 - i) Intravenous midazolam sedation ii) Diazepam sedation
 - iii) Meperidine sedation
- iv) N₂O sedation
- b) Before the placement of pit and fissure sealant the teeth are polished with fluoride-free paste because the fluoride)
 - i) Makes enamel difficult to etch
 - ii) Forms impervious coat on the surface
 - iii) Inhibits the polymerization of the resin
 - iv) Interferes with the retention of sealant
- c) When $Ca(OH)_2$ is applied directly to the pulp tissue there occurs:
 - i) Inflammation of the adjacent pulp and necrosis of the contiguous tissue
 - ii) Necrosis of the adjacent pulp and inflammation of the contiguous tissue
 - iii) Immediate Barrier formation of reparative dentin
 - iv) Broad zone of fixation
- d) Pulp revascularization or regeneration is recommended in situations with:
 - i) Vital pulp and open apex
 - ii) Non-vital pulp and a wider open apex
 - iii) Non-vital pulp and closed apex
 - iv) Non-vital and infected pulp with prior instrumentation and closed apex
- e) Arch criminal in dental caries is:
 - i) Sucrose

- ii) Glucose
- iii) Complex carbohydrates
- iv) Xylitol

1×5

- Q.2 Answer the following in brief:
 - a) Knutson technique
 - b) Difference between child and adult gingiva and its clinical implications
 - c) Stainless steel crowns
 - d) Class II cavity preparation and modifications in primary mandibular molars
 - e) Ugly duckling stage

5×5

Q.3 Classify traumatic injuries to teeth and supporting structures. Write the treatment protocol for the management of an avulsed permanent central incisor in an 8-year-old child reporting to the dental clinic within 20 minutes of Trauma.

PART-B

- Q.4 Multiple choice questions:
 - a) Contingency management involves the:
 - i) Presentation and withdrawal of reinforcers
 - ii) Desensitization

- iii) Use of Euphemisms
- iv) Voice control
- b) The behaviour shaping modelling technique is based upon:
 - i) Social learning principle
 - ii) Distraction and involvement
 - iii) Cognitive development of the child
 - iv) Signal system
- c) Compound cavity refers to a cavity involving:
 - i) One surface

- ii) Two surfaces
- iii) More than two surfaces
- iv) Cusp tips and incisal edge
- d) Leeway space in maxilla and mandible is approximate:
 - i) 1.8mm in Maxilla and 3.4mm in mandible
 - ii) 3.4mm in Maxilla and 1.8mm in mandible
 - iii) 18mm in Maxilla and 34mm in mandible
 - iv) 38mm in Maxilla and 14mm in mandible
- e) Fourth factor added to the pedodontic triangle by Dr GZ Wright is:
 - i) Time.

ii) Society.

iii) Caretaker.

iv) Education.

1×5

- Q.5 Write short notes on:
 - a) A 9-year-old girl reported to a dentist with forwardly placed upper teeth, a short upper lip and inflamed gingiva. Diagnose the oral habit and write its management.
 - b) Freud's psychosexual theory.
 - c) Obturating materials in primary teeth.
 - d) Management of premature exfoliation of primary mandibular molars bilaterally.
 - e) Dental management of a child with early childhood caries.

5×5

Q.6 Enumerate various non-pharmacological behaviour management techniques available for the management of uncooperative children in the dental clinic. Discuss desensitization in brief.

Bachelor of Dental Surgery - Fourth Year

PERIODONTOLOGY (BDS-PERI-401)

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) Life saver shaped enlargement of marginal gingiva is called: i) Stillmans's cleft ii) Mc call's festoons iii) Widow peaks iv) Craters b) The standard probing force used during periodontal examination should be: ii) **75gms** i) **25gms** iii) **2.5gms** iv) **7.5N** c) Corn -cob appearance seen in: i) Supragingival calculus ii) Subgingival calculus iii) Supragingival plaque iv) Subgingival plaque d) The purpose of GTR is: i) Prevention of epithelial migration ii) Elimination of junctional and pocket epithelium iii) Complete removal of all irritants iv) Careful curettage of the pocket wall surface e) Knife used for gingivectomy: i) Kirkland ii) Orbans iii) Merifield 1×5 iv) Burkett's Answer the following in brief: Q.2 a) Enumerate the steps in resective osseous surgery. b) Write the difference between suprabony pocket and infrabony pocket. c) Discuss the treatment of acute necrotizing ulcerative gingivitis (ANUG). d) Define plague and explain the formation of dental plague. e) Mention the host modulating agents. 5×5 Q.3 Define 'periodontal medicine'. Discuss the relationship between diabetes and periodontal disease. 10 PART-B Multiple choice questions: Q.4 a) The first sequential step in osseous resection technique. i) Vertical grooving ii) Radicular blending iii) Flattening interproximal bone iv) Gradualizing marginal bone b) Graft, when taken from a different species is called: i) Autograft ii) Allograft iv) Xenograft iii) Homograft c) Gingival crevicular fluid is measured using: i) **pH paper** ii) Mylar strip

i∨) **Litman's paper**

iii) Whatman's filter paper

d) Electronic instrument used to measure gingival crevicular fluid is: i) Perlcheck ii) Periotemp iii) Perioscan iv) **Periotron** e) In established lesion of gingivitis the predominant cells are: i) Plasma cells ii) PMN's iii) Lymphocytes iv) Macrophages 1×5 Q.5 Answer the following in brief: a) Classify types of guided tissue regeneration membrane. b) Discuss the management of furcation involvement. c) What are the factors that determine prognosis?

d) Write the clinical and radiographic changes of TFO.e) Explain the rationale of periodontal therapy.5×5

Q.6 Define 'gingival enlargement'. Explain the clinical and histo-pathological features of drug induced gingival overgrowth (DIGO).

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

PART-A

- Q.1 Multiple choice questions:
 - a) When one drug increases the action of the other drug, they are said to be:
 - i) Synergistic

ii) Antagonistic

iii) Both of the above

- iv) None of the above
- b) Which of the following is a beta blocker?
 - i) Terbutaline

ii) Salbutamol

iii) Adrenaline

- iv) Propranolol
- c) Superinfection may occur with:
 - i) Penicillin

ii) Tetracyclines

iii) Sulfonamides

- iv) Aminoglycosides
- d) Which is a beta-lactamase inhibitor?
 - i) Clavulanic acid

ii) Cefuroxime

iii) Cefepime

- iv) Cefpirome
- e) Which of the following is untrue for tetracycline?
 - i) Broad spectrum antibiotic
- ii) Has chelating property
- iii) May lead to tendon rupture
- iv) May lead to hepatic necrosis
- 1×5

- O.2 Answer the following in brief:
 - a) Analyze the role of multidrug therapy for the management of tuberculosis patients.
 - b) Describe the clinical significance of the combination of amoxycillin with clavulanic acid.
 - c) Describe the indications and side effects associated with aminoglycosides.
 - d) Describe the clinical significance of drug synergism with suitable examples.
 - e) Describe the clinical significance of mummifying agents.

5×5

Q.3 Long question:

Explain the indications, side effects and contraindications of glucocorticoids.

10

<u>PART-B</u>

- Q.4 Multiple choice questions:
 - a) Cardio-selective betablockers include all except:
 - i) Metoprolol

ii) Atenolol

iii) Acebutolol

- iv) Propranolol
- b) Which among these is a selective COX-2 inhibitor?
 - i) Aspirin

ii) Nimesulide

iii) Etoricoxib

iv) Diclofenac sodium

- c) Aspirin has:
 - i) Antithrombotic action
- ii) Anti-inflammatory action

iii) Analgesic action

iv) All of the above

- d) Which of the following are adverse effects of glucocorticoids?
 - i) Osteoporosis

ii) Delayed wound healing

iii) Suppression of HPA axis

iv) All of the above

- e) Clotrimazole is:
 - i) Used in oropharyngeal candidiasis
 - ii) Used in tinea infections
 - iii) Both of the above
 - iv) None of the above

1×5

- Q.5 Answer the following in brief:
 - a) Critically evaluate the combination of adrenaline with lignocaine.
 - b) Compare the amoxicillin and ampicillin.
 - c) Analyze the adverse drug reactions of a 35-year-old tubercular patient on isoniazid.
 - d) Write the management of oral candidiasis.
 - e) Describe disclosing agents and its significance.

5×5

Q.6 Long question:

Explain the management of bronchial asthma. Discuss the therapeutic uses and adverse effects of various drugs.

Bachelor of Dental Surgery – Fourth Year

PUBLIC HEALTH DENTISTRY (BDS-PHDE-401)

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 most insanitary method of waste disposal creating public health hazard is:
 - i) Dumping

ii) Controlled tipping

iii) Incineration

- iv). Composting
- b) A practice formally organized to provide dental care through the services or three or more dentists using same office space is called as:
 - i) Solo practice

ii) Duet practice

iii) Group practice

- iv) Non-Governmental Organization
- c) Which of these is not a classification of degree of supervision of auxiliaries?
 - i) General supervision

ii) Indirect supervision

iii) Direct supervision

- iv) Specific supervision
- d) The study which proceeds from cause to effect:
 - i) Retrospective

ii) Cohort

iii) Case Control

- iv) Descriptive
- e) Identify which is not an element of school dental programs in performing specific programs:
 - i) Tooth brushing program

ii) Fluoride mouth rinse program

iii) Fluoride tablet program

iv) Fluoride varnish application program 1x5

- Q.2 Write short notes on:
 - a) Oral hygiene aids.
 - b) Principles of health education.
 - c) Delta dental plan.
 - d) Acidulated phosphate flouride gel.
 - e) Principles of primary healthcare.

5×5

Q.3 Long questions:

Classify 'dental auxiliaries'. Write in detail about school dental nurse and its functions. 10

PART-B

- Q.4 Multiple choice questions:
 - a) The study of disease distribution and causation in specified populations is:
 - i) Epidemiology

ii) Biostatistics

iii) Psychology

- iv) Sociology
- b) In didactic method of communication:
 - i) Learning is two ways
 - ii) Knowledge is imposed
 - iii) Good feedback
 - iv) Active audience participation
- c) Attributable risk is calculated in:

i) Cohort studies ii) Case control studies iii) Experimental studies iv) Descriptive studies d) Health care services to be shared equally by all people ensures the principle of: i) Community participation ii) Equitable distribution iii) Intersectoral coordination iv) Appropriate technology e) The three tier quasi judicial machinery of the CPA does not include: i) District consumer dispute redressal forum ii) State consumer dispute redressal forum iii) Union territory dispute redressal forum iv) National consumer dispute redressal forum 1×5 Q.5 Write short notes on: a) Dental council of India. b) Informed consent. c) Pathfinder survey. d) ASHA worker. e) Changing concepts of health. 5×5 Long questions: Q.6 Explain in detail steps in planning a public health program. 10

Annual Examination, August 2023Bachelor of Dental Surgery – Third Year

ETHICS	(BDS-PHDE-OE-001)	

Time:	3 hrs.		Max Marks: 100 <i>No. of pages: 2</i>
	• Question Paper has TWO parts: PART each question.	T-A and PART-B. Marks are	indicated against
	All questions are compulsory. Draw the Attempt PART-A and PART-B in the se		ssary.
	<u>PAR</u>	<u>T-A</u>	
Q.1	 i) Sweden iii) United Kingdom b) Compassion is necessary for practice in in it is in it in yes c) Which of the following is not an ethical in it in it in it in it in it in yes d) Autonomy iii) Justice d) Helsinki Declaration is given by: i) World Medical association iii) American association of dentists in it in yes e) Confidentiality is also important becausion to be secretive 	ii) No al principle? ii) Beneficence iv) Advertising ii) FDI iv) All the above	1×5
Q.2	Answer the following in brief: a) What is patient's autonomy? b) Discuss the non-rational approaches of Discuss "Does dental ethics change". d) How dental ethics are different from re) Discuss dental ethics, human rights, a	medical ethics?	6×5
Q.3	Long questions: What is special about dental ethics? How ethical issues?	w is it different from medica	l and other field 15
Q.4	c) Resources should be distributed strict	iii) Research making and more on characterism. No ly according to need is: iii) Egalitarian iv) Research iv) Research mative theories of normative	acter of decision storative ethics:

- i) Not doing wrong. Dentists and dental researchers are to avoid inflicting harm on patients.
- ii) A good quality in people, especially in their character and behavior.
- iii) A form of dishonest behavior whereby a person copies the work of someone else.
- iv) Fair treatment of individuals and groups.

1×5

Q.5 Answer the following in brief:

- a) Discuss the rational approaches of ethical issues.
- b) Short note on resource allocation.
- c) Nuremberg code.
- d) Give an example and write about respect and equal treatment in terms of ethics.
- e) Types of publication ethics.

6×5

Q.6 Long questions:

Discuss FDI world dental federation international principles of ethics for the dental profession.

Bachelor of Dental Surgery - First Year

GENERAL HUMAN PHYSIOLOGY (BDS-PHYS-101)

Time: 3 hrs. Max Marks: 80 No. of pages: 2 Note: • Ouestion 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 Multiple choice questions: Q.1 a) Milieu interieur refers to: (BL-2,CO-3,PSO-1) i) internal environment of the cell ii) fluid which is present within the cell iii) hemoglobin that is useful to maintain constancy of blood pH iv) heamostasis b) The process by which WBCs squeeze through pores in capillary wall is: (BL-2,CO-3,PSO-1) i) Chemotaxis ii) Diapedesis iii) Pinocytosis iv) Opsonization c) Erythropoiesis is completed in _____ ___ days. (BL-1,CO-2,PSO-1) ii) 7 i) 3 iii) 14 iv) 20 d) The jumping of depolarization from node to node is called: (BL-1,CO-3,PSO-1) i) Absolute refractory period ii) Relative refractory period iii) Saltatory conduction iv) Orthodromic conduction e) During muscle contraction sliding of Thin filaments over the Thick filaments is brought about by: (BL-2,CO-2,PSO-1) i) Reaccumulation of Ca++ ions into terminal cistern. ii) Depolarization of myofibrils. iii) Formation of cross bridges between actin and myosin. iv) Release of Ca++ intra cellularly. 1×5 Q.2 Answer the following in brief: a) Explain reflex arc with the help of a diagram. Add a note on 'withdraw reflex'. (BL-3,CO-4,PSO-1) b) What is Tubuloglomerular feedback mechanism? Add a note on 'GFR'. (BL-2,CO-1,PSO-1) c) What is Erythroblastosis fetalis? Explain Landsteiner's law. (BL-2,CO-2,PSO-1) d) Draw a normal ECG. Explain the cause for different waves in an ECG. (BL-2,CO-1,PSO-1) e) Explain oxygen transport in the blood. Add a note on oxygen dissociation curve. (BL-3,CO-1,PSO-1) **5×5** Q.3 Long questions: Describe the steps involved in the synthesis of thyroid hormones. Explain its

physiological functions. Add a note on 'cretinism'.

(BL-3,CO-2,PSO-1) **10**

a) Gastric secretion is inhibited by: (BL-2,CO-1,PSO-1) i) Gastrin ii) Secretin iii) Histamine iv) Products of protein digestion. b) Following are the properties of skeletal muscle except: (BL-2,CO-3,PSO-1) i) Excitability ii) Autorhythmicity iii) Conductivity iv) Contractility c) Normal respiration is called as: (BL-2,CO-2,PSO-1) i) Apnea ii) Eupnea iii) Dyspnea iv) Orthoponea d) Phantom limb is an example of the following property of sensation: (BL-2,CO-3,PSO-1) i) Doctrine of specific nerve ending ii) Law of Projection iii) Intensity discrimination iv) Adaptation e) The symptoms of diabetes mellitus include all the following except: (BL-2,CO-2,PSO-1) i) Polyuria ii) Polyphagia iii) Polydipsia iv) Polychromasia 1×5 Answer the following in brief: Q.5 a) What are non respiratory functions of lungs? (BL-1,CO-3,PSO-1) b) Enumerate the functions of Saliva. Add a note on 'regulation of Saliva'. (BL-3,CO-3,PSO-1) c) Explain the structure of Juxtaglomerular apparatus. What are the functions of it? (BL-2,CO-3,PSO-1) d) Name the errors of refraction. Explain its corrections with the help of a diagram. (BL-1,CO-3,PSO-1) e) Write a note on 'contraceptive methods' in both males and females. (BL-3,CO-3,PSO-1) **5×5** Q.6 Long questions: Define 'blood pressure'. Give its normal values. Describe any one mechanism of (BL-2,CO-3,PSO-1) **10** regulation of blood pressure.

0.4

Multiple choice questions:

Bachelor of Dental Surgery – First Year

DENTAL MATERIALS (BDS-PROS-201)

Time: 3 hrs. Max Marks: 80 No. of pages: 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) Which of the following properties of dental materials is time dependent? i) Creep ii) Resilience iii) Elastic limit iv) Ultimate strength b) When solid gets wet completely contact angle is: i) 90 degree ii) 0 degree iii) 0-90 degree iv) >90 deraree c) Retarder in zinc oxide eugenol is: i) CaCl₂ ii) Zinc acetate iii) Alcohol iv) Glycerine d) Water powder ratio of dental stone and plaster respectively is: i) 0.28 and 0.5 ii) 0.5 and 0.28 iii) 0.6 and 0.32 iv) 0.28 and 0.98 e) Die is: i) Impression of single tooth ii) Impression of all teeth iii) Replica of single tooth iv) Replica of all teeth 1×5 Q.2 Write short notes on: a) Syneresis and imbibitions. b) Ductility and malleability. c) Hygroscopic setting expansion. d) Phosphate bonded investment. e) High copper amalgams. 5×5 Q.3 Classify dental impression materials. Compare and contrast various elastomeric impression materials. 10 PART-B Q.4 Multiple choice questions: a) If resin is packed in sandy stage what will be seen in processed denture. i) Distortion ii) Porosity iv) Increased strength iii) Inhomogeneous color b) The function of coupling agent in a restorative resin is to allow: i) Adhesion of resin particles

ii) Bonding between filler particlesiii) Bonding between filler and resiniv) Bonding between tooth and resin

c) Ideal requirements of metal ceramic casting. i) Low fusing and high fusing alloys ii) Matching of coefficients of thermal exoansion of ceramic and alloy iii) Bonding between ceramic and alloy iv) All of the above d) Stabilization of stainless-steel is achieved by adding. a) carbon b) chromium c) nickel d) titanium e) Function of carnauba wax: i) To provide a smooth and glossy surface ii) Increase toughness iii) Decrease toughness iv) Decrease flow at mouth temperature 1×5 Q.5 Write short notes on: a) Microfilled composite resins. b) Chemically activated denture based resins. c) Annealing. d) Zinc phosphate cement. e) Biocompatability of dental materials. 5×5 Enumerate various types of casting defects. Discuss porosity in detail. 10 Q.6

Bachelor of Dental Surgery – Fourth Year

PROSTHODONTICS AND CROWN AND BRIDGE (BDS-PROS-401)

Time: 3 hrs.

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. Q.1 Multiple choice questions: a) Pain in the TMJ is due to: (CO1, PO1) i) Decreased vertical dimension of occlusion ii) Increased freeway space iii) Increased vertical dimension of occlusion iv) None of the above b) Occlusal rest in clasp assembly serves the purpose of: (CO3, PO2) ii) Retention i) Support iii) Stability iv) Passivity c) Role of zinc acetate in zinc-oxide Eugenol cement: (CO2, PO2) ii) Aids in sintering i) Reduce brittleness iii) Accelerator iv) Plasticizer d) System used to make dies in FDP: (CO3, PO2) i) Munsell system ii) Pindex system iv) Both ii) and iii) iii) Dielock system e) Reduction required for functional cusp in cast metal alloy: (CO3, PO3) ii) 1-1.5 mm i) <1mm iii) 2 mm iv) 2-5 mm 1×5 Q.2 Write short notes on: a) Neutral zone. (CO1, PO2) b) Swing lock design (CO3, PO2) c) Permanent luting agents. (CO2, PO3) d) Burning mouth syndrome. (CO3, PO3) e) Connectors in FDP. (CO1, PO1) 5×5 Q.3 A 20-year old patient presents with missing central incisor. Discuss different treatment modalities for the patient. (CO3, PO4) 10 PART-B Q.4 Multiple choice questions: a) Dentogenic concept was given by: (CO2, PO2) i) McCollum ii) Sicher iii) Frush and Fischer iv) House b) The undercut required for wrought wire clasp: (CO1, PO1) i) 0.01inch ii) 0.02 inch iii) 0.03 inch iv) 0.04 inch c) Factors related to heat generated during implant osteotomy, except: (CO3, PO2) i) Amount of bone being prepared ii) Amount of bleeding

Max

	iii) Drill speedd) There cannot be any modification ini) Class IViii) Class I	ii) Class II iv) Class III	(CO3, PO3)
	e) Which is the technique for recordingi) Niswonger method	icentric jaw relation: ii) Dawson method	(CO2, PO1)
	iii) Arrow point tracing	iv) None of above	1×5
Q.5	Write short notes on:a) Tissue conditioner.b) Over dentures.c) Hinge axis.d) Finish lines in FDP.e) Pier abutment.		(CO2, PO2) (CO3, PO3) (CO2, PO3) (CO2, PO2) (CO3, PO2) 5×5

Q.6 Define 'balanced occlusion'. Discuss in detail different occlusal schemes in complete dentures. (CO3,PO3) **10**

Annual Examination, August 2023 Bachelor of Dental Surgery – First Year BEHAVIOURAL SCIENCES (BDS-PSY-OE-001)

Time:	3 hrs.		Max Marks: 100 <i>No. of pages: 2</i>
Note:	 Question Paper has TWO parts: PAR each question. 	T-A and PART-B. Marks are	, -
	All questions are compulsory. Draw Attempt PART-A and PART-B in the s		essary.
	<u>PAR</u>	<u> </u>	
Q.1	 Multiple choice questions: a) People with positive self-concept are i) Confident iii) Respect themselves b) Low self-esteem people are highly of i) True c) ABC model of attitude involves: i) Affection iii) Behaviour d) Some positive healthy emotions are: i) Self -esteem iii) Love e) Emotional intelligence (EI) is the abi i) Identify and use emotions iii) Manage emotions 	 ii) Feel equal to others iv) All of the above oncerned with self-protection. ii) False ii) Cognition iv) None of the above iii) Desire iv) All of the above 	1×5
Q.2	Answer the following in brief: a) Characteristics of the people with new the concept of cognitive, affect c) What do you mean by need for below d) Describe the characteristics of people) Suggest some strategies to manage	tive, and behavioural aspects ngingness and sense of maste e with positive, negative, and	ery?
Q.3	Long questions: Define 'self-concept'. Suggest the steps	to develop self-concept.	15
		RT-B	
Q.4	 Multiple choice questions: a) Our perception that our group is bet i) Out group preference iii) Stereotype b) The stage of team building when group i) Forming iii) Norming c) The techniques which reinforces us as: i) Bio feedback iii) Mindfulness 	ii) In-group favoritismiv) None of the aboveoup members experience confii) Stormingiv) Performing	flict is known as:

d) Part of our self about which we are unknown but others are aware is known as:

i) Open self

ii) Blind self

iii) Unknown self

iv) None of the above

e) Stress is associated with constraints and demand.

i) True ii) False

1×5

Q.5 Answer the following in brief:

- a) Discuss the importance of interpersonal relationship in organization.
- b) Draw the stages of team building with example.
- c) Give brief idea about the following concepts: role perception, role expectation, role conflict.
- d) Discuss the relation between stress and performance.
- e) Discuss the application of sociogram.

6×5

Q.6 Long auestion:

What is coping? Suggest some coping strategies with example.

15

Bachelor of Dental Surgery – First Year

RESEARCH INNOVATION CATALYST (BDS-RIC-101)

Time: 3 hrs. Max Marks: 80 No. of pages: 2 Ouestion Paper has TWO parts: PART-A and PART-B. Marks are Note: • 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 0.1 Multiple choice questions: a) Why should we do research? i) Seeking new Knowledge ii) Critical reading iii) Development of a scientific attitude iv) All the above b) Which section of a manuscript/report has no citation? i) Material and Method ii) Abstract iii) Introduction iv) Discussion c) Frequency distribution is diagrammatically represented using a: ii) Pie chart i) Histogram iii) Bar diagram iv) All of the above d) Mode is: i) Middle most value ii) Average of all values iii) Most frequently appearing value iv) All the above e) Random sampling methods are all except: i) Systematic random sampling ii) Purposive sampling iii) Cluster randomized sampling iv) Quota sampling 1×5 Write short notes on following: 0.2 a) Computers in research. b) Difference between guestionnaire and schedules. c) Write about the different parts of a scientific paper. d) Methods of primary data collection. e) Measures of central tendency. 5×5 Q.3 Long question: Importance of research ethics. Write about the declaration of Helsinki in detail. 10 PART-B Multiple choice questions: Q.4 a) Difference in upper and lower limits is called as: i) Range ii) Standard deviation iii) Frequency iv) Class Interval b) Which of the following is a source of primary data? ii) Surveys i) Books iii) Newspapers iv) Internet articles c) All are measures of dispersion except: i) Variance ii) Mean deviation

iv) Standard deviation

iii) Mean

d) Male/Female comes under which scale:

i) Nominal ii) Ordinal

iii) Ratio iv) Interval

e) Data can be collected by:

i) Interview ii) Interview

iii) Past records iv) All of the above

Q.5 Write short notes on the following:

a) Referencing in research.

- b) Presentation of quantitative data.
- c) Objectives of conducting research.
- d) Types of sampling techniques.

e) Plagiarism and its types. 5×5

Q.6 Long questions:

Write about the steps to design a survey. Explain with the help of an example. 10

1×5

Annual Examination, August 2023 Bachelor of Dental Surgery – Second Year RESEARCH INNOVATION CATALYST (BDS-RIC-201)

Time:	3 hrs.					-	Marks: 80 <i>pages: 2</i>
Note:	Question Paper has TWO parts: Fagainst each question. All questions are compulsory . Drawn Attempt the PART-A and PART-B in	v the	diagrams whe	ere ev	er nece	are	indicated
	<u>PAR</u>	<u>T-A</u>					
	 a) What is the first step in the design the i) Empathize iii) Ideate b) Design thinking is: i) Way to think about design ii) Designing a Product iii) Method and mindset to define, from iv) Way to separate thinking from method. c) Which of the following cannot be patential. 	ii) iv) rame nakin	Design Build Prototype and solve pro		S		
	 i) A new Software iii) A new system or process d) Which of the following is primary sou i) Direct interview transcripts e) Snowball sampling is a type of: i) Probability sampling 	ii) urce ii)	A new method	•		a game	1×5
-	Write short notes on the following:a) Types of patents.b) Reference management softwares.c) Harvard style of referencing.d) Differentiate between process and pree Literature search.	rodu	ct innovation.				5×5
Q.3	Long questions: Steps in design thinking.		_				10
0.4	PAR	<u> </u>	<u>8</u>				
	 Multiple choice questions: a) AND, OR and NOT are: i) Boolean Operators b) Least reliable measure of central ten i) Mode c) All are measures of dispersion excep i) Variance d) SWOT analysis is: i) Survey Work Operations Testing ii) See Wonder Observe Treat iii) Strength Weakness Opportunity e) Copyright is a type of: 	ii) ot: ii)	Median Mean Deviatio	iii) l	Keywor Mean iii) M		
0.5	i) IPR Write short notes on the following:	ii)	Patent				1×5

- a) Types of consent.b) Standard deviation.
- c) Format for writing literature review.
- d) Explain the use of truncation signs.
- e) Steps in systematic review. 5×5

Q.6 Long questions:

What is a patent? Discuss steps involved in applying for a patent.

67/2

10

Bachelor of Dental Surgery – Third Year

RESEARCH AND INNOVATION CATALYST – III (BDS-RIC-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 the PART-A and PART-B in the separate answer sheets.

PART-A

- Q.1 Multiple choice questions:
 - a) Cohort study is a:
 - i) Prospective study
 - ii) Retrospective study
 - iii) Can go in either direction
 - b) Number of years for which clinical trial records need to be saved in India are:
 - i) 2 years after approval of marketing application
 - ii) 3 years after approval of marketing application
 - iii) 5 years after approval of marketing application
 - iv) Forever
 - c) All are pressure habits except
 - i) Thumb sucking
- ii) Mouth breathing

iii) Lip biting

- iv) Tongue thrusting
- d) Berkson's bias is also known as:
 - i) Selection bias

- ii) Recall bias
- iii) Prevalence-incidence bias
- iv) Hospital bias
- e) Non Parametric equivalent of paired t test is:
 - i) Kruskal Walis ANOVA
- ii) Wilcoxon sign rank test

iii) Chi square test

iv) Mann whitney U test

1×5

- Q.2 Answer the following in brief:
 - a) A study was done to assess difference in DMFT scores of girls and boys of 6th grade. Which test of significance will be applied? Justify your answer.
 - b) General examination in case history.
 - c) Correlation.
 - d) Incidence and prevalence.
 - e) Basic guidelines for maintaining research records.

5×5

Q.3 Long questions:

Create objectives for an epidemiological study to determine causes of oral cancer in the community. Design a case recording proforma to collect data in order to achieve your objectives.

PART-B

- Q.4 Multiple choice questions:
 - a) All are statistical analysis softwares except
 - i) R ii) GPower iii) SPSS iv) STATA

	was	revealed that 32 rols were tobacc	2 of the cases	oral cancer and 8 were tobacco che culate the odds ra iii) 3	ewers where as	
	i) P ii) S iii) T	ication of pit and rimary prevention econdary prevention fertiary prevention	on ntion	t is:		
	i) T iii) N e) The		est summarizing m	ii) Test of prop iv) All of the ab eta-analysis is a: iii) Forest plot		1×5
Q.5	a) Classb) Phasc) Hiera	nort notes on: sification of epid es of clinical tria archy of evidence efluctuations in lue.	al. ce.			5×5
Q.6	Long qu Steps in	estion: volved in condu	cting systemat	c review.		10

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Master of Dental Surgery – Second Year

FORENSIC ODONTOLOGY (MDS-ORPA-OE-001)

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

No. of pages: 1

Note: All questions are **compulsory** and alsodraw the diagrams where ever necessary.

Marks are indicated against each question.

Q.1 Write short notes on:

a) Review Demirjian's method of Radiographic Age Estimation.	(BL-2, CO-3)
b) Compare and contrast between Cheiloscopy Palatoscopy.	(BL-4, CO-4)
c) Illustrate methods of denture marking.	(BL-3, C02)
d) Discuss concept of chain of custody.	(BL-2, CO-5)
e) Create a forensic report.	(BL-5, CO-4)
f) Underline the importance of record keeping in dental office.	(BL-1, C0-3)
g) Discuss CAPMI.	(BL-2, CO-1)
h) Explain step wise procedure of Ameloglyphics.	(BL-2, CO-3)
i) Propose role of tongue prints in forensic investigations.	(BL-5, CO-2)
j) Judge the role of Dentists in the cases of child abuse.	(BL-6, CO-5) 5×10

Long questions:

- Q.2 Discuss in detail about classification systems, variables affecting, methods of recording and analysis of bite mark evidence. (BL-2, CO-1) **25**
- Q.3 Define 'forensic odontology'. Assess the roles and responsibilities of a forensic odontologist. (BL-6, CO-5) **25**

Master of Dental Surgery – First Year

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS-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)	Classification of Timolium wires.	[CO4][L-1]
b)	Drugs Enhancing orthodontic tooth movement.	[CO2][L-2]
c)	Sterilization methods in orthodontics.	[CO3][L-3]
d)	Test of significance.	[CO4][L-2]
e)	Is condyle the cornucopia of growth.	[CO1][L-5]
f)	Homeobox Genes.	[CO1][L-2]
g)	Facial Nerve.	[CO1][L-4]
h)	Basic Research Design in orthodontics.	[CO4][L-3]
i)	Application of Leeway space.	[CO3][L-4]
j)	Bruxism.	[CO2][L-5] 5×10

Long questions:

- Q.2 Discuss in detail functional matrix hypothesis of growth and its revisited theory withit's clinical applications in orthodontics with diagrams. [CO4][L-4] **25**
- Q.3 Discuss the role of nasopharyngeal airway in developing malocclusion. [CO1][L-2] 25

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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:

	ite shore histes on	
a)	Genetic counselling.	[CO6 L3]
b)	TMJ.	[CO1 L1]
c)	Saliva and dental caries.	[CO1 L4]
d)	Diet diary.	[CO1 L6]
e)	Coagulative necrosis.	[CO1 L1]
f)	Hemostatis.	[CO1 L1]
g)	Development of cleft lip and palate.	[CO1 L1]
h)	Hemophilia.	[CO1 L1]
i)	Indications and contraindications of LA.	[CO3 L2]
j)	Write about T Test.	5×10

Q.2 Discuss antibiotics used in pediatric dentistry with recent guidelines. [CO3, L3] **25**

Q.3 Describe trigeminal nerve in detail with its clinical applications. [CO1 L3] **25**

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Annual Examination, August 2023

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 Answer the following in brief:

swer the following in brief.	
Describe the role of <i>porphyromonas gingivalis</i> in periodontal disease.	(CO-1) (L-1)
Summarize the role of Saliva as a diagnostic marker in periodontics.	(CO-4) (L-5)
Classify hemostatic agents and justify their use as coagulants.	(CO-3) (L-4)
Determine the methods to eliminate bias in scientific research.	(CO-6) (L-3)
Explain the Null hypothesis.	(CO-3) (L-2)
Describe the microscopic features of gingiva in disease.	(CO-2)(L-1)
Illustrate the development of periodontium and its anomalies.	(CO-2)(L-3)
Assess the role of volatile sulphur compounds.	(CO-1)(L-5)
Formulate the uses local delivery agents in periodontics.	(CO-5)(L-6)
	Describe the role of <i>porphyromonas gingivalis</i> in periodontal disease. Summarize the role of Saliva as a diagnostic marker in periodontics. Classify hemostatic agents and justify their use as coagulants. Determine the methods to eliminate bias in scientific research. Explain the Null hypothesis. Describe the microscopic features of gingiva in disease. Illustrate the development of periodontium and its anomalies. Assess the role of volatile sulphur compounds.

- Q.2 Discuss the role of diet in health and disease of periodontium. (CO-6)(L-2) **25**
- Q.3 Classify leucocytes and discuss the role of neutrophils in health and disease.

j) Integrate the use of systemic antimicrobials in periodontics.

(CO-1)(L-4) **25**

(CO-5)(L-6) **5×10**

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Annual Examination, August 2023

Master of Dental Surgery – First Year

BEHAVIOURAL SCIENCE (MDS-PSY-OE-001)

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)	Component of self-concept.	[CO-1][L-2]
b)	Characteristics of the people with low self esteem.	[CO-1][L-2]
c)	Strategies for building self esteem.	[CO-1][L-2]
d)	Types of attitudes.	[CO-1][L-2]
e)	Component of emotional intelligence.	[CO-4][L-2]
f)	Mindfulness technique.	[CO-3][L-2]
g)	Differences between Eu stress and distress.	[CO-3][L-2]
h)	Concept of team and group.	[CO-5][L-2]
i)	Team roles and responsibilities.	[CO-5][L-2]
j)	Cognitive dissonance.	[CO-5][L-2] 5×10

- Q.2 Discuss the characteristics of four types of self-based on Johari window. [CO-1][L-2] 25
- Q.3 Draw the importance of emotional intelligence in workplace. [CO-5][L-6] **25**

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Master of Dental Surgery – Third Year

CONSERVATIVE DENTISTRY AND ENDODONTICS -II (MDS-CONS-201-I & II) PAPER – I (CONSERVATIVE DENTISTRY)

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)	Discuss etiology and management of abrasion and erosion of teet	th. [CO-1][L-2]
b)	Explain componeers.	[CO-6][L-1]
c)	Analyze microleakage.	[CO-1][L-4]
d)	Discuss bur designs.	[CO-2][L-2]
e)	Discuss biological properties of restorative materials.	[CO-1][L-1]
f)	Assess role of bonding agents in operative dentistry.	[CO-1][L-5]
g)	Discuss finishing and polishing of adhesive restorations.	[CO-1][L-1]
h)	Explain green dentistry.	[CO-6][L-1]
i)	Discuss casting technique and casting errors.	[CO-1][L-2]
j)	Explain different types of veneers.	[CO-6][L-1] 5×10

Long questions:

Q.1	Describe recent advancements in smile design concept.	[CO-3][L-1] 25

Q.2 Discuss cavity design of inlay and onlay preparation. [CO-5][L-2] **25**

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Master of Dental Surgery – Third Year

CONSERVATIVE DENTISTRY AND ENDODONTICS —II (MDS-CONS-201-I & II) PAPER — II (ENDODONTICS)

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)	Etiology and management of dens invaginatus.	[CO-1][L-2]
b)	Describe role of CBCT in endodontics.	[CO-2][L-2]
c)	Assess microbiology of periapical lesions.	[CO-2][L-5]
d)	Describe role of intraligementary technique of injection in endodor	ntics. [CO-1][L-2]
e)	Determine role of guided endodontics in access cavity preparation	. [CO-2][L-3]
f)	Discuss role of antibiotics in endodontics.	[CO-4][L-1]
g)	Discuss endodontic instruments.	[CO-2][L-1]
h)	Etiology and management of tooth discoloration.	[CO-4][L-2]
i)	Assess pulp sensibility and vitality tests.	[CO-4][L-5]
j)	Describe avulsion and its protocol.	[CO-4][L-2] 5×10

Long questions:

Q.2	Discuss role	of platelet concentrate	es in endodontics.	[CO-2][L-1] 25
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Q.3 Discuss various techniques of irrigation with recent advancements. [CO-3][L-1] 25

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Master of Dental Surgery – Third Year

CONSERVATIVE DENTISTRY AND ENDODONTICS -II (MDS-CONS-201-I & II) PAPER – III (ESSAY)

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

No. of pages: 1

Note: Attempt any **TWO** questions also draw the diagrams where ever necessary. Marks are indicated against each question.

Q.1	Discuss role of Local anaesthesia and Antibiotics in endodontics.	[CO-4][L-2] 50
Q.2	Describe regeneration in endodontics.	[CO-4][L-1] 50
Q.3	Discuss minimal invasive dentistry.	[CO-2][L-2] 50

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Master of Dental Surgery – Third Year

ORAL RADIOLOGY COMPREHENSIVE PROGRAMME (MDS-ORCP-OE-001)

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)	TLD badge.	[CO-3][L-2]
b)	Deterministic effects of radiation.	[CO-3][L-2]
c)	Radiolysis of water.	[CO-3][L-2]
d)	Acute radiation syndrome.	[CO-3][L-2]
e)	ALARA principle.	[CO-3][L-2]
f)	Maximum permissible dose.	[CO-3][L-2]
g)	Filtration.	[CO-3][L-2]
h)	Intensifying screens.	[CO-3][L-2]
i)	Composition of X-ray film.	[CO-3][L-2]
j)	Applications of CBCT in head and neck.	[CO-3][L-3] 5×10

- Q.2 Explain concept of X-ray production. Draw a neat and labeled diagram of X- ray Tube. [CO-3] [L-2] **25**
- Q.3 Illustrate radiation effects on oral cavity. [CO-3] [L-3] **25**

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Master of Dental Surgery – Third Year

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS-II (MDS-ORTH-201-I & II) PAPER – I

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)	Safety valve mechanism.	[CO-4] [L-2]
b)	Body dysmorphic disorder.	[CO-2] [L-3]
c)	Primary failure of eruption.	[CO-4] [L-5]
d)	Gnathostatic goals of orthodontics.	[CO-3] [L-4]
e)	'C' axis.	[CO-3] [L-1]
f)	Planned incisor position.	[CO-5] [L-3]
g)	Orthodontic brackets for current esthetic trends.	[CO-4] [L-4]
h)	Concept of attritional occlusion.	[CO-3] [L-2]
i)	Epigenetics.	[CO-3] [L-5]
j)	Two way communication.	[CO-2] [L-6] 5×10

Long questions:

Q.2	Discuss the role of soft tissues in orthodontic treatment planning.	[CO-4] [L-3] 25
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Q.3 Discuss Orthodontic records, their management and future. [CO-3] [L-6] **25**

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Master of Dental Surgery – Third Year

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS-II (MDS-ORTH-201-I & II) PAPER – II (CLINICAL ORTHODONTICS)

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)	0.018 v/s 0.022 slot.	[CO-4] [L-5]
b)	Clinical management of impacted canine.	[CO-3] [L-5]
c)	Role of functional jaw orthopaedics.	[CO-1] [L-3]
d)	Bonded molar tube: Why, Where, When.	[CO-4] [L-2]
e)	Lasers in Orthodontics.	[CO-3] [L-3]
f)	NiTi Coil Springs.	[CO-3] [L-2]
g)	Ectopic teeth: management.	[CO-4] [L-3]
h)	SureSmile.	[CO-3] [L-6]
i)	Torque Prescription.	[CO-4] [L-5]
j)	Tip Edge.	[CO-4] [L-3] 5×10

Q.2	Comment on "stability in orthodontics".	[CO-5] [L-5] 25
Q.3	Discuss case selection considerations for an adult patient.	[CO-2] [L-3] 25

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Master of Dental Surgery – Third Year

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS-II (MDS-ORTH-201-I & II) PAPER – III (ESSAY)

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

No. of pages: 1

Note: Attempt any **TWO** questions also draw the diagrams where ever necessary. Marks are indicated against each question.

Q.1	Discuss temporary anchorage devices in orthodontics.	[CO-3] [L-3] 50
Q.2	Discuss surgery first approach.	[CO-3] [L-4] 50
Q.3	Discuss technology update in orthodontics.	[CO-4] [L-6] 50

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Annual Examination, June 2023

Master of Dental Surgery – Third Year

PEDIATRIC AND PREVENTIVE DENTISTRY (MDS-PEDO-201-I & II) PAPER – I (CLINICAL PEDIATRIC DENTISTRY)

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)	Evaluate the applications of LASERS in Pediatric Dentistry	[CO-5] [L-5]
b)	School dental health programs	[CO-2][L-1]
c)	Oral mucosal lesions in children	[CO-3][L-2]
d)	Treatment planning for a high risk caries child	[CO-1][L-6]
e)	Myofunctional therapy	[CO-1][L-4]
f)	Acute fluoride toxicity	[CO-1][L-5]
g)	Masochistic habits	[CO-1][L-2]
h)	Bioactive dental materials	[CO-3][L-4]
i)	Dental management of children with bleeding disorders	[CO-1][L-3]
j)	Ethics in pediatric dental practice	[CO-4] [L-3] 5×10

- Q.2 Critically evaluate the outcomes of recently introduced pulpotomy agents for primary teeth. [CO: 1][L: 5] **25**
- Q.3 Classify traumatic injuries to anterior teeth and discuss their management utilizing latest concepts. [CO: 1][L: 4] **25**

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Master of Dental Surgery – Third Year

PEDIATRIC AND PREVENTIVE DENTISTRY (MDS-PEDO-201-I & II) PAPER – II (PREVENTIVE AND COMMUNITY DENTISTRY AS APPLIED TO PEDIATRIC DENTISTRY)

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) Dental applications of plant extracts	[CO:1][L:4]
b) Pediatric mandibular fractures	[CO:1][L:3]
c) Periodontal diseases in children	[CO:2][L:2]
d) Remineralizing agents	[CO:4][L:1]
e) Stem cell technological applications in clinical pediatric dentistry	[CO:5][L:6]
f) Pain assessment tools in children	[CO:1][L:3]
g) Space regainers	[CO:1][L:4]
h) Seal Bio technique	[CO:1][L:2]
i) Direct methods of evaluating pulp vitality	[CO:3][L:4]
j) Tests of significance	[CO:5][L:3] 5×10

- Q.2 Discuss the epidemiology of dental caries in children in India and critically compare with global trends. [CO:2][L:5] **25**
- Q.3 Analyze the core concepts in treatment planning for comprehensive cleft care management in children. [CO:5][L:6] **25**

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Master of Dental Surgery – Third Year

PEDIATRIC AND PREVENTIVE DENTISTRY (MDS-PEDO-201-I & II) PAPER – III (ESSAY)

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

No. of pages: 1

Note: Attempt any **TWO** questions also draw the diagrams where ever necessary. Marks are indicated against each question.

Q.1	Recent advances in Pediatric Endodontics	[CO-1][L-5] 50
Q.2	Pediatric interceptive orthodontics	[CO-3][L-4] 50
Q.3	Preventive Pediatric Dentistry concepts of the new millennium	[CO-1][L-3] 50

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Master of Dental Surgery – Third Year

PERIODONTOLOGY (MDS-PERI-201-I & II) PAPER – I

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 following:

a) Illustrate the role of MMPs in periodontal diseases.

[CO-3][L-3]

b) Outline the pathological changes in tooth surface wall of periodontal pocket.

[CO-1][L-4]

c) List and explain the developmental anomalies of periodontium. [CO-2][L-1]

d) Justify the pathogenesis of drug induced gingival enlargement. [CO-4][L-5]

e) Compose modified risk factors in periodontal disease. [CO-5][L-6] **10×5**

Long questions:

Q.2 Discuss the immunological pathways in the pathogenesis of periodontal disease.

[CO-2][L-2] **25**

Q.3 Describe the clinical and histological response of periodontium to external forces.

[CO-1][L-1] **25**

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Master of Dental Surgery – Third Year

PERIODONTOLOGY (MDS-PERI-201-I & II) PAPER – II (PERIODONTAL DIAGNOSIS, THERAPY AND ORAL IMPLANTOLOGY)

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 Biological width maintenance and violation. [CO-4] [L-5]

b) Determine the Failures of periodontal therapy. [CO-1][L-3]

c) Outline Ailing, failing and failed implants and their management in brief. [CO-2][L-4]

d) Tabulate the steps of Resective osseous surgery. [CO-3][L-1]

e) Formulate the Role of lasers in periodontal therapy. [CO-1][L-6] **10×5**

Long questions:

Q.2 Discuss the diagnosis and treatment planning of oral implants in esthetic region.

[CO-5] [L-2] **25**

Q.3 Describe the current treatment modality for gingival recession. [CO-3][L-1] **25**

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Master of Dental Surgery – Third Year

PERIODONTOLOGY (MDS-PERI-201-I & II) PAPER – III (ESSAY)

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

No. of pages: 1

Note: Attempt any **TWO** questions also draw the diagrams where ever necessary. Marks are indicated against each question.

Long questions:

Q.1 Describe the statement "The oral microbiome: the role of key organisms and complex networks in periodontal health and disease". [CO-1][L-1] **50**

Q.2 Illustrate on periodontal medicine.

[CO-4][L-4] **50**

Q.3 Compare the non-surgical therapy versus surgical therapy. [CO-3][L-5] **50**

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Master of Dental Surgery – Third Year

PROSTHODONTICS AND CROWN & BRIDGE— II (MDS-PROS-201-I&II)

PAPER – I (REMOVABLE PROSTHODONTICS & IMPLANTOLOGY)

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) Analyze the role of nutritional factors in the management of completely edentulous patients, citing their impact on the oral health status and their implications in the success of the prosthodontic treatment. [CO2][L-1]
- b) Evaluate the impact of phonetics in the fabrication of complete denture prosthesis, highlighting the various techniques employed to assess and achieve optimal speech

function. [CO3][L-2]

- c) Critically appraise the importance of characterization in the esthetic outcome of complete denture prostheses, discussing the different approaches, materials, and tools available to achieve lifelike naturalness. [CO1][L-2]
- d) Analyze the clinical and scientific evidence regarding immediate loading and delayed
 - loading protocols of oral implants, discussing the advantages, limitations, and contraindications of each approach, and the factors that may affect their predictability and long-term outcomes. [CO2][L-2]
- e) Explain the differences and the factors that influence the occlusal scheme of complete dentures. [CO3][L-1]
- f) Explain the principles of overdenture design and fabrication. [CO][L-]
- g) Examine the concept of combination syndrome, elaborating on its etiology, clinical manifestations, and the prosthodontic considerations in the management of partially

edentulous patients with this condition.

[CO3][L-2]

- h) Compare and contrast the techniques for denture relining, rebasing, and rebase impressions, and explain when each is indicated. [CO1][L-1]
- i) Recall and list the different types of interocclusal records and their clinical applications in removable prosthodontics. [CO2][L-3]
- j) Explain the importance of rests in removable partial dentures, including their functions, types, and design principles, and how they contribute to stability, retention, and support of the prosthesis. [CO3][L1] **5×10**

Long questions:

Q.2 Analyze the biomechanical principles and clinical considerations involved in the design and fabrication of implant-supported prosthesis, including the selection of appropriate

- implant systems, implant placement protocols, prosthetic components, and occlusal schemes. [CO2][L2] **25**
- Q.3 What are the techniques and rationale for making impressions for distal extension base removable partial dentures? [CO1][L2] **25**

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Master of Dental Surgery - Third Year

PROSTHODONTICS AND CROWN AND BRIDGE – II (MDS-PROS-201-I & II) PAPER – II (FIXED PROSTHODONTICS, TMJ AND ESTHETICS)

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) What are the esthetic considerations in fixed prosthodontics? [CO-1][L-2]
- b) Discuss the factors influencing tooth preparation for a fixed prosthodontic restoration. [CO-2][L-2]
- c) Describe the etiology and signs/symptoms of temporomandibular joint disorder (TMD). [CO-3][L-1]
- d) Apply the principles of tooth reduction for a full coverage crown preparation on a given tooth model. [CO-2][L-2]
- e) Compare and contrast the advantages and disadvantages of metal-ceramic and all-ceramic fixed prosthodontic restorations. [CO-3][L-1]
- f) Analyze the factors affecting the selection of abutment teeth for a tooth-supported FDP in a partially edentulous arch. [CO-1][L-1]
- g) Critically evaluate the potential complications and risks associated with tooth-supported FDPs, including caries, periodontal disease, and occlusal issues.[CO-2][L-2]
- h) Critically evaluate the various Luting agents used in crown and bridge Prosthodontics and add a note on Luting agents used for all ceramic restorations.

[CO-3][L-3]

- i) Evaluate the Different die systems in Fixed dental prosthesis.
- [CO-1][L-2]
- j) Compare and contrast the advantages and disadvantages of different pontic designs

in terms of esthetics, patient comfort, and clinical performance. [CO-1][L-3] 5×10

<u>Long questions:</u>

Q.2 Discuss the principles and techniques of shade selection, color matching, and communication with the dental laboratory in fixed prosthodontics, including the use of shade guides, digital shade analysis, and communication tools. Critically evaluate the challenges and strategies for achieving esthetic outcomes and patient satisfaction.

[CO-2][L-3] **25**

Q.3 Analyze the soft tissue management techniques in fixed prosthodontics, including gingival retraction, crown lengthening, and tissue conditioning, with emphasis on their impact on esthetics and gingival health. Discuss the advantages, limitations, and evidence-based recommendations for their clinical application. [CO-2][L-2] **25**

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Master of Dental Surgery – Third Year

PROSTHODONTICS AND CROWN AND BRIDGE – II (MDS-PROS-201-I & II) PAPER – III (ESSAY)

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

No. of pages: 1

Note: Attempt any **TWO** questions also draw the diagrams where ever necessary. Marks are indicated against each question.

- Q.1 Discuss in detail the biomechanical principles involved in designing a full-arch implant-supported fixed dental prosthesis for a completely edentulous maxilla. Include a step-by-step description of the treatment planning process, implant placement techniques, prosthesis design considerations, occlusal schemes, and esthetic considerations. Provide evidence-based rationale for your design choices, supported by relevant literature and clinical examples.

 [CO-3][L-2] 50
- Q.2 Write a detailed review on the prosthetic rehabilitation of acquired maxillofacial defects, including defects due to surgical resection of tumors, trauma, and congenital anomalies. Discuss the interdisciplinary approach in maxillofacial prosthetic rehabilitation, involving prosthodontists, oral and maxillofacial surgeons, radiation oncologists, and other specialists. Describe the comprehensive treatment planning process, including patient evaluation, defect classification, treatment goals, and prosthesis design. Discuss the fabrication techniques and materials used in maxillofacial prostheses, including their esthetic, functional, and biocompatibility characteristics. Include evidence-based recommendations for the management of acquired maxillofacial defect.

 [CO-2][L-2] 50
- Q.3 Write a detailed review on geriatric dentistry, including the challenges and considerations in providing prosthodontic care for elderly patients. Discuss the agerelated changes in the oral cavity, systemic health considerations, assessment and management of age-related oral conditions, denture-related concerns, and preventive measures for oral health maintenance in the geriatric population. Include evidence-based recommendations and relevant clinical examples. [CO-2][L-1] **50**