Annual Examination, August 2021 Bachelor of Dental Surgery – First Year COMPUTER APPLICATIONS (BDS-CA-OE-001)

ııme	: 3 nrs.		arks: 100 <i>pages: 2</i>
	: • Question Paper has TWO part indicated against each question	ts: PART-A and PART-B.	Marks are
	All questions are compulsory	. Draw the diagrams wh	ere ever
	necessary.	h	
	Attempt Part-A and Part-B in the	ne separate answer sneets.	
	<u>PAR</u>	<u>T-A</u>	
Q.1	Multiple choice questions:		
	a) Which of the following tag is to in HTML?	used for inserting the larges	t heading:
	i) <h1></h1>	ii) <h4></h4>	
	iii) <h6></h6>	iv) <h2></h2>	
	b) Which one is used for creating		
	i) MS Word	ii) MS Access	
	iii) MS Excel	iv) PowerPoint	
	c) File extension of word docume		
	i) .xls iii) .word	ii) .doc iv) .jpeg	
	d) We can insert a page number	, ,,	
	i) Header	ii) Footer	
	iii) Both i) and ii)	,	
	e) A number of letter that app called:	,	nal text is
	i) Superscript	ii) Subscript	
	iii) Supertext	iv) Toptext	1x5
Q.2	Write short notes on the following	1.	
Q.Z	a) Utility of Microsoft Word	, .	
	b) Inbuilt functions in Microsoft E	xcel.	
	c) Features of Microsoft Access.		
	d) Format Painter and types of al	ignments in Microsoft Word	
	e) Use of Animation in PowerPoir	nt.	5x5
Q.3	a) Explain mail merge with steps	to create and also explain	where the
	mail merge is used.	•	10
	b) How queries can be applied or	n tables in Microsoft Access?	10
	<u>PAR</u>	<u>T-B</u>	
Q.4	Multiple choice questions:		
	 a) Which of the following tag is r HTML? 	esponsible for making the to	ext bold in
	i)	ii) <bold></bold>	
	iii) 	iv) <bo></bo>	

Bachelor of Dental Surgery – First Year

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

Time: 3 hrs. Max Marks: 80 No. of pages: 2 Note: • Question Paper has TWO parts: PART-A and PART-B. Marks are

- indicated against each question. • All questions are **compulsory.** Draw the diagrams where ever necessary.
- Attempt Part-A and Part-B in the separate answer sheets.

PART-A

- Multiple choice questions: Q.1
 - a) Which structure passing through the posterior part of jugular foramen?
 - i) Vestibulo cochlear
- ii) Hypoglossal nerve
- iii) Superior petrosal sinus
- iv) Vagus nerve.
- b) A 22 year old cricket player was rushed to emergency department after being hit in the head with the ball. CT scan revolved a fracture at pterion and extradural hematoma. Which of the following vessel is likely to be injured?
 - i) Superficial temoral artery ii) Maxillary artery
- - iii) Middle meningeal artery iv) Deep temoral artery
- c) Which of the following nerve passess through the canvernous sinus?
 - i) Trochlear nerve
- ii) Oculomotor nerve
- iii) Abducent nerve
- iv) Trigeminal nerve
- d) All of following muscles are supplied by trunk of mandibular division except:
 - i) Medial Pterygoid
- ii) Tensor tympani
- iii) Tensor veli palatine
- iv) Lateral pterygoid
- e) The structure that is not present within the parotid gland is:
 - i) External carotid artery
- ii) Facial artery

iii) Facial nerve

- iv) Retromandibular vein
- Q.2 Write short notes on the following:
 - i) Nerves and Vessels related to the mandible.
 - ii) Pterygopalatine ganglion.
 - iii) Dangerous area of Scalp.
 - iv) Bell's palsy.

v) Fertilization.

5x5

1x5

Q.3 Describe boundaries, content and sub-division of posterior triangle of neck. 10

- Q.4 Multiple choice questions:
 - a) Which is NOT a branch of the facial nerve?

Bachelor of Dental Surgery – First Year

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

Time: 3 hrs. Max Marks: 80 No. of pages: 2

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

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

PART-A

- Multiple choice questions: Q.1
 - a) External manifestation of striae of Retzius are:
 - i) Perikymata

ii) Enamel rods

iii) Enamel cuticle

iv) Enamel cracks

- b) Hypoplasia is:
 - i) Disturbance in matrix formation
 - ii) Disturbance in calcification
 - iii) Disturbance in maturation
 - iv) All of the above
- c) The remnants of epithelial root sheath found in periodontal ligament are called:
 - i) Enamel pearls

ii) Enamel knots

iii) Rests of Malassez

- iv) Epithelial diaphragm
- d) Dental lamina is formed when the embryo is:
 - i) 3 weeks old

ii) 4 weeks old

iii) 5 weeks old

- iv) 6 weeks old
- e) Cap stage contains the following transitory structures:
 - i) Enamel knot, enamel cord, enamel niche
 - ii) Enamel matrix
 - iii) Stratum intermedium
 - iv) Cervical loop

1x5

- Q.2 Write short notes on the following:
 - i) Keratinized mucosa.
 - ii) Formation of enamel.
 - iii) Classify Cementum.
 - iv) Tome's Granular Layer.
 - v) Histology of Mixed salivary gland.

5x5

Enumerate the stages of development of a tooth. Write in detail about Q.3 Bell stage. 10

- Multiple choice questions: Q.4
 - a) The long depression or valley in the surface of the tooth between ridges and cusp is:

Bachelor of Dental Surgery – First Year **RESEARCH INNOVATION CATALYST-I (BDS-RIC-101)**

• • •		
Time:	3 hrs.	Max Marks: 80 <i>No. of pages: 2</i>
Note:	 Question Paper has TWO parts: PART-A and PAI indicated against each question. 	RT-B. Marks are
•	All questions are compulsory. Draw the diagram	ns where ever
	necessary. Attempt Part-A and Part-B in the separate answer s	haats
	PART-A	neets.
Q.1	Multiple choice questions: a) Which is a type of research? i) Descriptive ii) Exploratory iii) Both b) Pilot study is also called as: i) Feasibility study ii) Simple study c) Pre-testing of investigative tool is done in the case i) Data Analysis ii) Questionnaire iii) Ethnography iv) Observations d) Which method of data presentation looks like a piesi i) Histogram ii) Spot map iii) Pie diagram iv) Frequency pole	·
Q.2	 Write short notes on the following: i) What should be the criteria for a protocol? ii) Explain nominal and ordinal scale in detail. iii) Discuss 'structured interview'. How is it diffunctructured interview? iv) Differentiate between 'exploratory' and 'correlation v) "Research ethics is doing what is morally and research". Comment on the statement. 	research'.
Q.3	Explain the steps of a survey to be conducted among of Faridabad district to check their knowledge and harmful effects of tobacco. PART-B	•
Q.4	Multiple choice questions: a) Informed consent is taken from: i) Participant ii) Interviewer	

b) Ethical issues are important in research.

ii) No

ii) Quantitative data

i) Yes

c) Blood Pressure is: i) Qualitative data

Bachelor of Dental Surgery – First Year

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

Time: 3 hrs. Max Marks: 80 No. of pages: 2 Note: • Question Paper has TWO parts: PART-A and PART-B. Marks are indicated against each question. • All questions are **compulsory.** Draw the diagrams whereever necessary. Attempt Part-A and Part-B in the separate answer sheets. PART-A Multiple choice questions: Q.1 a) Which vitamin is associated with Bleeding Gums? i) Vitamin A ii) Vitamin B Complex iii) Vitamin C iv) Vitamin K b) Vanden Bergh reaction test performed in: i) LFT ii) KFT iii) GFT iv) Both LFT and KFT c) BMR IS: i) Body mass index ii) Basal metabolic rate iii) Both i) and ii) iv) None of these d) TPP is coenzyme of: i) Thiamine ii) Biotin iii) Tyrosine iv) Niacin e) Fe is present in Hb in which form? i) Fe(3+)ii) Fe(2+) iii) Fe atom iv) Sometimes Fe(2+) and sometimes Fe(3+) 1x5 Q.2 Write short notes on the following: a) How is blood sugar (Plasma Glucose) regulated in our body? b) Justify statement "V.D.Bergh Reaction is clinical test to analyze Jaundice and its type". c) Compare the role of Vitamin D, PTH and Calcitonin to maintain blood calcium levels. d) Illustrate how 'blood buffers' maintains pH of blood. e) Explain mechanism of beta oxidation of fatty acids. 5x5 Describe sources, functions and deficiency of Vitamin C. 10 Q.3 PART-B Q.4 Multiple choice questions:

a) Reference range of Serum Urea level is:

b) All regarding water soluble Vitamins are correct except:

ii) 80-100 mg%

iv) 0.4 -1.4 mg%

i) 60-80 mg%

iii) 14-40 mg%

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

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

No. of pages: 6

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

Comprensión

Q.1 Lee el texto y responde a las preguntas. Read the paragraph and answer the following questions.

Me llamo Pedro. Hoy voy a hablar del parque que está cerca de mi casa. Yo juego todos los días en el parque. En parque veo los patos (ducks) que comen y beben agua. También veo pájaros de colores diferentes en los árboles (tree). Yo juego con mis amigos, cuando termino (I finish) los deberes de la escuela. Mis amigos favoritos son Juan y Luis. Juego muchos juegos con ellos, como baloncesto (basketball) yvoleibol. Mi padre también (also) juega voleibol con mí en los domingos. Mi madre mira (looks) a nosotros cuandojugamos, ella habla con sus amigas en el parque. Este parque es mi favorito porque veo muchascosas y juego mucho.

a) —	¿Dónde está el parque?	
b)	¿Cuantos días juega pedro en el parque?	
c)	¿Qué son los animales que ve Pedro en el parque?	
d) 	¿Qué son amigos favoritos de Pedro?	
e) 	¿Cuándo juega con sus amigos?	
f) —	¿Qué hace (do) la madre de Pedro en el parque?	
g) —	¿Qué deporte (sports) juega Pedro con sus amigos?	
h)	¿Porque el parque es favorito de Pedro?	. 1x8
i)	¿Busca dos verbos en el texto y hace 1 frase para los dos verbos.	-

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

Time: 3 hrs. Max Marks: **100** No. of pages: 5

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

(COMPRÉHENSION ÉCRITE)

Q.1 Lisez le passage et répondez aux questions

	Au travail !	
Marie:	:-SalutZoé! Çava?	
	Salut Marie! Ouiçavabien, merci et toi?	
	:-Ça ne va pas bien. Je suismalade (someone who is not well).	
	I fautaller chez le médecin.	
	:-Mais comment? Ma mèren'est pas à la maison.	
	Dùest-elle?	
	:-Elle est à l'école. Elle estinstitutrice.	
	Et ton père?	
	:-Il est coiffeur. Alors, ilestaussi au travail.	
	D'accord! Cen'est pas grave!(It's not a big problem). Mon père,	
ilestmé		
	-Merci beaucoup! Et ta mère? Elle estaussimédecin?	
	Non! Elle est chanteuse.	
	:-OK! C'estgénial.	
	ondez aux questions:- (Respond to the questions)	
a) Rép	ondez aux questions:- (Respond to the questions)	
a) Rép i.)	ondez aux questions:- (Respond to the questions) Qui estmalade?	
ii.) iii.) Dites	ondez aux questions:- (Respond to the questions) Qui estmalade? Oùest la mère de Marie? Quelleest la profession des parents de Zoé? SVraiou Faux:- (Tell True or False)	
ii.) iii.) Dites i) Zo	ondez aux questions:- (Respond to the questions) Qui estmalade? Oùest la mère de Marie? Quelleest la profession des parents de Zoé? SVraiou Faux:- (Tell True or False) Déappelle le médecinà lamaison.	
ii.) iii.) Dites i) Zo ii) Ma	Oùest la mère de Marie? Quelleest la profession des parents de Zoé? SVraiou Faux:- (Tell True or False) Déappelle le médecinà lamaison. arie n'est pas malade.	
ii.) iii.) Dites i) Zo ii) Ma iii) Le	ondez aux questions:- (Respond to the questions) Qui estmalade? Oùest la mère de Marie? Quelleest la profession des parents de Zoé? SVraiou Faux:- (Tell True or False) Déappelle le médecinà lamaison. Dearie n'est pas malade. De père de Marie n'est pas à la maison.	. =
ii.) iii.) Dites i) Zo ii) Ma iii) Le iv) Le	Oùest la mère de Marie? Quelleest la profession des parents de Zoé? SVraiou Faux:- (Tell True or False) Déappelle le médecinà lamaison. arie n'est pas malade. E père de Marie n'est pas à la maison. E père de Zoéest coiffeur.	. =
ii.) iii.) Dites i) Zo ii) Ma iii) Le iv) Le c) Coch	ondez aux questions:- (Respond to the questions) Qui estmalade? Oùest la mère de Marie? Quelleest la profession des parents de Zoé? SVraiou Faux:- (Tell True or False) Déappelle le médecinà lamaison. Darie n'est pas malade. De père de Marie n'est pas à la maison. De père de Zoéest coiffeur. De père de Zoéest coiffeur. De per la bonne réponse: (Pick the right answer)	1x3
ii.) iii.) Dites i) Zo ii) Ma iii) Le iv) Le i) Coch i) Ma	Oùest la mère de Marie? Quelleest la profession des parents de Zoé? SVraiou Faux:- (Tell True or False) Déappelle le médecinà lamaison. arie n'est pas malade. E père de Marie n'est pas à la maison. E père de Zoéest coiffeur.	. =

a) Coiffeur h) Professeur c) Médecin

Annual Examination, August 2021 Bachelor of Dental Surgery – First Year GENERAL HUMAN PHYSIOLOGY (BDS-PHSY-101)

Time:	3 hrs.	Max Marks: 80
•	 Question Paper has TWO parts: PA indicated against each question. All questions are compulsory. Dranecessary. Attempt Part-A and Part-B in the separate. 	aw the diagrams where ever
	PART-A	
Q.1	 Multiple choice questions: a) P wave in ECG corresponds to: i) Ventricular depolarization iii) Ventricular repolarization b) Normal stroke volume is: i) 5 - 6 ml/beat iii) 5 - 6 L/beat c) Chief cells of Stomach secrete: i) HCl iii) Mucus d) The hormone produced by kidney is i) Gastrin iii) Aldosterone e) Osmotic Fragility is increased in: i) Thallasemia iii) Hereditary Spherocytosis 	 ii) Atrial depolarization iv) Atrial systole ii) 70 -80 ml/beat iv) 20 -30 L/beat ii) Pepsinogen iv) Intrinsic factor ii) Erythropoietin iv) ADH ii) Sickle cell Anaemia iv) Iron deficiency Anaemia 1x5
Q.2	Write short notes on the following: i) Excitation contraction coupling in Sk ii) Regulation of Blood Pressure. iii) Composition and functions of Gastric iv) Neuromuscular Junction. v) Transport of Oxygen	
Q.3	Define GFR. Write its normal value. Des Also add a note on its regulation.	scribe the factors affecting GFR. 10
Q.4	Multiple choice questions: a) Which of the following controls the (i) Hypothalamus ii) iii) Thalamus iv) b) The chromosomal pattern in Klinefel i) XO ii)	cerebellum Mid brain Iter's syndrome is: XX XXX

Bachelor of Dental Surgery – First Year

BEHAVIOURAL SCIENCES (BDS-PSY-OE-001)

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

No. of pages: 1

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

- All questions are **compulsory**. Draw the diagrams whereever necessary.
- Attempt Part-A and Part-B in the separate answer sheets.

<u>PART-A</u>

- O.1 a) Define 'stress'.
 - b) Why is self-esteem important?
 - c) I have a perception problem. What can I do to perceive other people in a right manner?
 - d) Jane holds a very good image of herself. What is it that she holds best about herself?
 - e) What is cognitive dissonance?

1x5

- Q.2 a) Why are emotions important in one's life?
 - b) Define a relationship circle.
 - c) What is the importance of intra-personal relationships in life?
 - d) Jessica and her boss share a happy relationship. Define this relationship.
 - e) Define 'self-confidence'.

6x5

Q.3 Emotional intelligence is an ability to perceive, assess, and manage the emotions of yourself and others. Daniel Goleman's groundbreaking work on emotional intelligence group's leadership competencies into four buckets: self awareness, self management, social awareness, and relationship management; explain this concept at length. **15**

PART-B

- Q.4 a) What are the four quadrants of Johari's window?
 - b) What is self-acceptance?
 - c) State aspects of your behavior that you consider are positive in nature.
 - d) What is attitude?
 - e) What is a team?

1x5

- Q.5 a) State and explain the types of stress.
 - b) What do you consider as a stressor in your life?
 - c) Why is it important to have healthy interpersonal relationships?
 - d) Why is it important to understand oneself?
 - e) What are intrapersonal relationships?

6x5

Q.6 How as a doctor will you handle a difficult patient?

15

Annual Examination, August 2021 Bachelor of Dental Surgery – Second Year COMPUTER APPLICATIONS (BDS-CA-OE-001)

	,
Time: 3 hrs.	Max Marks: 100 <i>No. of pages: 2</i>
Note: • Question Paper has TWO parts: indicated against each question. • All questions are compulsory . necessary. • Attempt Part-A and Part-B in the PART-	Draw the diagrams where ever separate answer sheets.
Q.1 Multiple choice questions: a) Which is the default alignment in i) Left iii) Centre b) Following is used for creating pre i) MS Word iii) MS Excel c) File extension of word document i) .xls iii) .word d) We can insert a page number at i) Header iii) Both i) and ii) e) A number of letter that appear called: i) Superscript iii) Supertext	ii) Right iv) Justify esentations. ii) MS Access iv) Power Point is: ii) .doc iv) .jpeg ii) Footer iv) None of these
Q.2 Write short notes on the following: i) Advantages of Microsoft Word. ii) Comparison of Microsoft Word ar iii) Features of Microsoft Access. iv) Format Painter in Microsoft Word v) Use of fonts and its attributes.	
Q.3 Create a list of 10 best friends. Cr Merge feature of MS-WORD to creat your friends from the above two files	ate a Thank You letter for each of s. 15
Q.4 Multiple choice questions: a) What is the attribute for tag? i) pt iii) path b) Can a data cell contain images? i) Yes c) Can I play audios in HTML?	ii) url iv) src ii) No

Bachelor of Dental Surgery – Second Year

FINANCIAL ACCOUNTING (BDS-COM-OE-001)

Time: 3 hrs.	Max Marks: 100 <i>No. of pages: 2</i>
Note: • Question Paper has TWO parts: PART-A and PA indicated against each question. • All questions are compulsory . Draw the diagramecessary. • Attempt Part-A and Part-B in the separate answer separate.	MRT-B. Marks are
Q.1 Multiple choice questions: a) As per Income Tax Act, accounting period is: i) From 1 st January to 31 st December ii) From 1 st April to 31 st March iii) From 1 st July to 31 st June b) As per dual aspect concept Assets = Liabilities – Cai) i) True ii) False c) Accrual Concept is based on concept. i) Matching ii) Cost iii) Going Concern d) Sales Accounts is always credited: i) True ii) False e) Cash discount is allowed to encourage quick or proving the province of the provin	
 Q.2 Answer the following questions: i) Discuss the Functions of financial accounting. ii) Out of Journal and Ledger, which book is more impliii) What is Double Entry System? iv) Define the three rules of accounts. v) Journalise the following transactions: a) Dr. Royal started 'Royal Dental Clinic' with Rs.1 b) He purchased dental chair of Rs.1,00,000/- for patient. c) He paid Rs.15,000/- electricity bill and Rs.2 assistant and Rs.10000/- for maintenance of clid) He withdraws Rs.50000/- for personal use from e) He withdrawal Rs.10,000/- cash from bank. 	00,00,000/- the treatment of 0,000/- salary to nic.
Q.3 Differentiate between book keeping and accounting and conventions of accounting with their practical utili	

a) Final accounts can be prepared with Ledgers.i) Trueii) False

Multiple choice questions:

Q.4

Bachelor of Dental Surgery – Second Year

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 Part-A and Part-B in the separate answer sheets. PART-A Q.1 Multiple choice questions: a) Mycobacterium tuberculosis complex includes all of the following except: i) M. tuberculosis ii) M. bovis iii) M. africanum iv) M. intracellulare. b) Which Ig class is involved in type-I hypersensitivity? i) IaE ii) IqA iii) IgM iv) IgG c) Beaded appearance of Corynebacterium diphtheriae indicates: ii) Stored energy Live bacilli i) iii) Dead bacilli iv) Presence of exotoxin d) Which of the following is responsible for drug resistance in bacteria? Colicinogenic factor ii) Resistance transfer factor i) F factor iv) None of these iii) e) Motility in spirochetes is by: Endofagella ii) Flagella iv) None of these iii) Fimbriae 1x5 Q.2 Write short notes on the following: i) Principle of autoclave. ii) Enumerate methods of gene transfer. iii) Enumerate causes of bacterial sore throat and also add a note on

- 'laboratory diagnosis'.
- iv) Principle of agglutination reactions with examples and its applications.
- v) Enumerate Hypersensitivity reactions and explain in detail type-1 Hypersensitivity reaction. 5x5
- Q.3 Enumerate clinical infections caused by 'Staphylococci'. Discuss laboratory diagnosis of Staphylococcus aureus infection in detail.

- Q.4 Multiple choice questions:
 - a) Laboratory method to test for HIV infection during window period:
 - p24 antigen assay i)
 - ii) IgM capture ELISA

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

- Multiple choice questions: Q.1
 - a) The use of tooth eruption for age estimation should be limited to
 - i) Deciduous Dentition ii) Mixed Dentition
- - iii) Permanent Dentition
- iv) Edentulous Patients
- b) Various stages of tooth calcification when evaluated on radiograph can be used to estimate the age upto:
 - i) First decade of life
- ii) Second decade of life
- iii) Third decade of life
 - iv) Fourth decade of life
- c) A Bite mark with inter-canine width of more than 3 cms on a young child could be a sign of:
 - i) Sexual abuse

ii) Self-inflicted bite

iii) Animal bite

- iv) Insect bite
- d) The best known method for preserving bitemarks is:
 - i) impressions

ii) photography

iii) radiographs

- iv) tracing
- e) Which is the most reliable method of forensic identification?
 - i) Finger print identification
 - ii) Dental identification
 - iii) Serological marker identification
 - iv) DNA identification

1x5

- Q.2 Write short notes on the following:
 - i) Rugoscopy.
 - ii) Explain the various factors influencing the effects of poison in an individual.
 - iii) Role of amelogenin gene as a Gender determinant.
 - iv) Gustafson's index is used in age estimation. Justify.
 - v) Tabulate the various craniofacial morphologic indicators of sex. **6x5**
- In case involving child trafficking, discuss the various methods of Q.3 dental age estimation which could help determine the age of the victim. **15**

- Q.4 Multiple choice questions:
 - a) What changes in a tooth is the most reliable technique for the determination of age of individual?

Bachelor of Dental Surgery – Second Year

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

Time: 3 hrs. Max Marks: 80 No. of pages: 2 Note: • Question Paper has TWO parts: PART-A and PART-B. Marks are indicated against each question. • All questions are **compulsory.** Draw the diagrams where ever necessary. Attempt Part-A and Part-B in the separate answer sheets. PART-A Multiple choice questions: Q.1 a) The study of absorption, distribution, metabolism and excretion of drugs in the body is known as: i) Pharmacognosia ii) Pharmacokinetics iii) Dose effective study iv) Pharmacotherapy b) Drugs mostly cross biological membranes by: i) Passive diffusion ii) Active diffusion iii) Active transport iv) Carrier mediated transport v) All of the above c) All are 2nd line Antitubercular drug except: ii) Rifampicin i) Thiacetazone iii) Cycloserin iv) PAS d) What is the advantage of sublingual route of administration of drugs? i) Prevents first pass effect ii) Easy to administer iii) Lipid soluble iv) Can be spitted out with signs of toxicity e) All of following are examples of prodrugs except: i) Levodopa ii) Enalapril iii) Omeprazole iv) Indomethacin 1x5 Q.2 Write short notes on the following: i) Write briefly on Adrenaline. ii) Compare first and second generation antihistamines. iii) Describe the indication and side effects associated with 'Penicillins'. iv) Critically evaluate the combination of sulfamethoxazole with

PART-B

Q.4 Multiple choice questions:

0.3

trimethoprim.

- a) Ipratropium bromide is:
 - i) Bronchoselective anticholinergic

v) Describe the clinical significance of 'Obtundents'.

Explain regarding 'Disclosing Agents' with suitable examples in detail. 10

5x5

Annual Examination, August 2021 Bachelor of Dental Surgery – Second Year DENTAL MATERIALS (BDS-PROS-201)

Time: 3 hrs.	Max Marks: 80 <i>No. of pages: 2</i>
Note: • Question Paper has TWO parts: 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-	
Q.1 Multiple choice questions:	
a) Which by product is formed in Z	
i) ZnOH iii) ZnO	ii) H ₂ O iv) Zn eugenolate.
b) Which material is most stiff?	iv) zii cagenolacei
i) mercaptan	ii) polysulphide
iii) polyether	iv) polysiloxane
c) Which material is not used in dei) titanium	ntai impiants? ii) ceramic
iii) epoxy resin	iv) zirconia
d) Least water powder ratio require	•
i) dental stone	ii) plaster
iii) die stonee) Cause of delayed expansion in a	iv) impression plaster
i) Cu	ii) Zn
iii) Mo	iv) H ₂ O 1x5
O 2 Myita short nates on the following.	
Q.2 Write short notes on the following:i) Explain in brief laminate techniq	ue of impression making
ii) Explain bonding mechanism in G	
iii) Biocompatibility test.	
iv) Types of Direct filling gold.	FwF
v) Elastic impression materials.	5x5
Q.3 What is dental ceramic? Expla strengthening of ceramics.	in in detail about methods of 10
PART-	· B
Q.4 Multiple choice questions:	
a) Which one is a temporary ceme	
i) ZoE iii) polycarboxylate	ii) GIC iv) harward cement
b) Absorption of moisture by algina	,
i) hysteresis	ii) imbibition
iii) syneresisc) Time dependent deformation is:	iv) gelation

ii) elasticity

i)

creep

Bachelor of Dental Surgery – Second Year

RIC-II (BDS-RIC-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.

PART-A

- Q.1 Multiple choice questions:
 - a) What is the first step in the Design Thinking Process?

i) Empathize

ii) Define

iii) Ideate

- iv) Prototype
- b) Process innovation refers to:
 - i) the development of a new service.
 - ii) the development of a new product.
 - iii) the implementation of a new or improved production method.
 - iv) the development of new products or services.
- c) During which stage would you:

Analyze observations and data collected in order to identify the core problem.

i) Prototype

ii) Define

iii) Ideate

iv) Empathize

- d) Design thinking is a
 - i) Way to think about design
 - ii) Designing a product
 - iii) Method and mindset to define, frame and solve problems
 - iv) Way to separate thinking from making
- e) Elevator pitch is:
 - i) A short business pitch
 - ii) An elevated playing field
 - iii) A method of process improvement
 - iv) A detailed business pitch

1x5

- Q.2 Write short notes on the following:
 - i) Explain the causes of failure of Google Glass and how it could be prevented?
 - ii) Write an elevator pitch for 'Stema stem cell treatment for knocked out teeth'.
 - iii) How would you differentiate between process and product innovation
 - iv) Write about different types of intellectual property rights.
 - v) What is competition? Why are competitive advantages important?

5x5

Q.3 What is design thinking? What are various steps in design thinking?

Time: 3 hrs.

Annual Examination, August 2021 Bachelor of Dental Surgery – Second Year GENERAL PATHOLOGY (BDS-GEPA-201)

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:
Q.I	a) The type of necrosis seen in tuberculosis is:
	() Fat a second (i) Fibrit and a second
	iii) Caseous necrosis iv) All of the above.
	b) Which of the following statement is TRUE about dystrophic
	calcification?
	i) It is similar to metastatic calcification
	ii) Associated with hyperparathyroidism
	iii) Seen in dead tissues
	iv) Example is calicific bone disease
	c) Which of the following is the cell of acute inflammation?
	i) Macrophage ii) Plasma cell
	iii) Lymphocyte iv) Neutrophil
	d) Virchow's triad for thrombosis includes all EXCEPT?
	i) Stasis ii) Endothelial injury
	iii) Hypercoagulability iv) Platelet aggregation
	e) Which of the following Vitamin deficiencies causes bleeding gums?
	i) Vitamin A ii) Vitamin D
	iii) Vitamin B iv) Vitamin C 1x5
Q.2	Write short notes on the following:
_	i) Pathogenesis of edema
	ii) Routes of Metastasis
	iii) Granulomatous Inflammation
	iv Lab diagnosis of iron deficiency Anemia
	v) Infective Endocarditis. 5x5
Q.3	Define 'apoptosis'. Discuss it in detail. Differentiate between 'necrosis'
	and 'apoptosis'.
	<u>PART-B</u>
Q.4	Multiple choice questions:
Q	a) Increase in the number of cells is:
	i) Atrophy ii) Hyperplasia
	iii) Hypertrophy iv) Metaplasia
	b) Which of the following is a feature of 'Malignant' tumour?
	i) Well encapsulated ii) Metastasis
	,

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

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

No. of pages: 6

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

Section-A (COMPRÉHENSION ÉCRITE)

Q.1 Lisez le passage et répondez aux questions

(Read the passage and answer to the questions)

Bonjour! Je m'appelle Sandrine Dupont et J'ai dix ans. J'habite à Paris. J'ai un frère. Il s'appelle Alain Dupont, il a quatorze ans. Mon oncle Jean Dupont, le frère de mon père a deux enfants. Ils sont grands. Mes grands-parents habitent à Lyon. Ils sont vieux mais actifs. J'aime bien mes grands-parents. Ils sont très gentils. J'ai un chien et deux chats. Ma famille est grande. J'aime beaucoup ma famille.

-	épondez aux questions : (Answer to the questions)) Comment s'appelle le frère de Sandrine ?	
ii.)) Où habite Sandrine ?	·
		1x2
	ites vrai ou faux : (True or False) La famille de Sandrine est petite.	
ii.)	Sandrine a dix ans.	
iii.)	Elle a deux chiens et deux chats.	
iv.)	Ses grands-parents habitent à Lyon.	1x4
-	Complétez avec un mot du texte. (Complete with a word from the text.) J'ai une famille.	
ii.)	Nous avons frères.	1x2
•	rouvez le contraire du texte : (Find out the opposites from the text)) Jeunes≠	
ii) Petits≠	1x2

Bachelor of Dental Surgery – Second Year **SPANISH (BDS-CDC-0E-002)**

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

No. of pages: 7

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

Comprensión

Q.1 Lee el texto y responde las preguntas. Read the text and respond to the questions.

iHola! Yo soy Anjela. Mi hermano se llama Pablo. Su edad es 12 años. Él habla cuatro lenguas hindi, chino, español y un poco de italiano. Él también aprende inglés. Mi mejor amiga y mi hermano estudian en misma (same) escuela. Mi mejor amiga se llama María y ella tiene 16 años. Ella es muy guapa y estudiosa. Ella también habla cuatro lenguas. Nosotros vemos películas juntos. Yo amo a mi amiga mucha.

Verdadero o falso:

a)	Pablo habla español un poco.	
b)	El hermano de Anjela es Pablo.	
c)	María y Pablo no estudian en misma escuela.	
d)	Anjela y María tienen 16 años	
e)	La mejor amiga de Anjela es guapa y estudiosa.	1x5

Q.2 Lee el texto y conteste a las preguntas. Read the text and answer the questions.

Enrique: Buenas tardes. Soy Enrique y necesito trabajo. Empleado: Muy bien, Enrique. ¿Cuáles son sus apellidos?

Enrique: Gómez Santana. Enrique Gómez Santana.

Empleado: ¿Edad? Enrique: Veintiuno años. Empleado: ¿Usted de Madrid?

Enrique: No, soy de Toleado, pero estudio en Madrid.

Empleado: Y no tiene usted trabajo, ¿Verdad?

Enrique: No trabajo.

Empleado: Y usted también estudia.

Enrique: Sí, estudio económicas en la Universidad. Pero necesito trabajar para pagar

los estudios.

Empleado: ¿Habla usted algún idioma?

Enrique: Sí, hablo un poco de inglés y también de francés. Empleado: Estupendo. Hablar inglés ayuda a encontrar trabajo. Empleado: Esta empresa necesita un contable. ¿Le interesa?

Enrique: ¿Cuál es el horario de trabajo? Empleado: Media jornada por las tardes. Enrique: ¿Y dónde está la empresa?

Empleado: En el centro de Madrid y pagan bien.

Roll	No.	:	

Master of Dental Surgery – First Year

FINANCIAL ACCOUNTING-BASICS (MDS-COM-OE-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 **Short Questions:**

- a) Discuss the scope of financial accounting.
- b) Explain 'Book Keeping' in brief.
- c) What is 'Balance Sheet'? Why is it prepared? Give its specimen.
- d) Define 'double entry system'.
- e) Differentiate between 'capital' and 'revenue expenditure' with examples.
- f) Elaborate the three rules of accounts.
- g) Give the specimen of Profit and Loss Account.
- h) What is Trial Balance? Why is it prepared?
- i) Laxmi Dental Care centre purchased furniture of Rs. 90000/- on 1st April, 2019 and spend Rs. 10000/- on carriage. Calculate the amount of depreciation for two years i.e. 2019 and 2020, when rate of depreciation is 20% on the diminishing balance method. Books are closed on 31st March every year.
- j) Journalise the following transactions:
 - i) Dr. Roshan started 'Roshan Dental Clinic' with Rs. 20,00,000/-
 - ii) He purchased dental chair of Rs. 5,00,000/- for treatment of patients.
 - iii) He paid Rs. 1,000/- electricity bill and Rs. 5,000/- salary to assistant.
 - iv) Received cash Rs. 2,000/- from patients for their treatment.
 - V) He deposited Rs. 10,000/- into bank.

5x10

- Q.2 What do you mean by financial accounting? Explain the different types of accounting principles with their practical utilities. **25**
- Q.3 Define 'accounting'. Explain briefly its advantages. Mention the different types of users of financial statements. **25**

Roll	No.:	l			

Master of Dental Surgery – First Year

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

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

No. of pages: 1

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

Q.1 **Short Questions:**

- a) Discuss Muscles of tongue.
- b) Explain Errors in casting procedure with respect to class II inlay.
- c) Explain Theories of pain pertaining to pulpitis.
- d) Waste management and disposal in the current scenario.
- e) Discuss Age changes in dentin.
- f) A patient with severe pain in the upper maxillary posterior quadrant presents to your clinic but on clinical examination there is no evident carious lesion, explain and justify your course of action.
- g) Discuss measures of central tendency.
- h) Blood supply of human dentition.
- i) Discuss various types of adhesive cements.
- j) Non parametric tests.

5x10

- Q.2 Discuss role of local anesthesia in endodontics in detail.
- 25
- Q.3 Describe etiology and management of various non carious lesions of teeth. **25**

Roll	No.:	l i	

Master of Dental Surgery – First Year

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

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

No. of pages: 1

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

Q.1 **Short Questions:**

- a) Discuss the role of muscle function in development of Malocclusion.
- b) Innovations in bonding procedures using currently available bonding materials during Covid-19 pandemic.
- c) Illustrate the expression of calcium regulating hormones during orthodontic tooth movement.
- d) Critically evaluate the role of meta-analyses in orthodontics research.
- e) Describe sterile necrosis during orthodontic tooth movement.
- f) Summarize current recommendations for cross infection control in orthodontic operatory.
- g) Describe the evolutionary development of human dentition.
- h) Parametric vs nonparametric test statistics.
- i) Discuss the effect of Estrogen on orthodontic tooth movement and orthodontically induced root resorption.
- j) Describe Regional Acceleratory Phenomenon (RAP). **5x10**

- Q.2 Discuss the role of genetics in orthodontics and add a note on homeobox genes. **25**
- Q.3 Discuss current methods of growth prediction and its importance in orthodontic treatment planning. **25**

Roll	No.:			

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 **Short Questions:**

- a) Pain pathways.
- b) Temporalis muscle.
- c) Facial nerve paralysis.
- d) Tertiary dentine.
- e) Role of pedodontist in management of Cleft lip and Palate.
- f) Role of saliva in caries prevention.
- g) Child abuse and dental neglect.
- h) Extrinsic pathway of blood coagulation.
- i) Growth spurts.
- j) Antibiotics in pedodontics.

5x10

- Q.2 Describe the origin, course and branches of 'Mandibular Nerve' in detail.
- Q.3 Describe infection prevention and control in pediatric clinical practice in current COVID pandemic in detail. **25**

Roll	No.	• •

Annual Examination, July 2021 Master of Dental Surgery – First Year PERIODONTOLOGY—BASICS (MDS-PERI-101)

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

No. of pages: 1

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

Q.1 Write short notes on the following:

- a) Test of significance.
- b) Muscles of mastication.
- c) Physiology of pain.
- d) Fat soluble vitamins.
- e) Mandibular nerve.
- f) Clotting mechanism.
- g) Facial Artery.
- h) Diabetes and periodontitis.
- i) Anaphylactic shock.
- j) Fibers of periodontal ligament.

5x10

- Q.2 Analyze the role of inflammation in periodontal health and disease in detail.
- Q.3 Describe, in detail, macroscopic and microscopic features of gingiva. 25

Roll	No.:		

Master of Dental Surgery – First Year

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

Time: 3 hrs. Max Marks: **100** *No. of pages: 1*

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

Q.1 **Short Question:**

- a) Syncope and its management.
- b) Muscles of mastication.
- c) Role of saliva in prosthodontics.
- d) Chi square test.
- e) Describe CBCT and its use in prosthodontics.
- f) Wound healing.
- g) Hospital waste management.
- h) Describe various casting defects and their prevention.
- i) Non steroidal anti inflammatory drugs.
- j) Nutrition care for denture wearing patients. **5x10**

- Q.2 Discuss Dental ceramics in detail. 25
- Q.3 Discuss about Temporomandibular joint in detail. 25