

Annual Examination, August 2020
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 where ever necessary.

● Attempt **Part-A** and **Part-B** in the separate answer sheets.

PART-A

Q.1 Multiple choice questions:

- Multiple choice questions:

 - a) Gout is a metabolic disorder of catabolism of:
 - i) Pyrimidine
 - ii) Purine
 - iii) Alanine
 - iv) Phenylalanine
 - b) Important buffer of Extracellular fluid is:
 - i) Bicarbonate/Carbonic Acid
 - ii) Disodium hydrogenphosphate/Sodium dihydrogen phosphate
 - iii) Plasma Protein
 - iv) Organic Phosphate
 - c) All are dietaryfibers except:
 - i) Cellulose
 - ii) Sucrose
 - iii) Inulin
 - iv) Dextrin
 - v) Lignin
 - d) All of the following act as antioxidant except:
 - i) Vitamin E
 - ii) Vitamin C
 - iii) Glutathione Reductase
 - iv) Selenium
 - v) Monoamine Oxidase
 - e) Increased urobilinogen in urine and absence of bilirubin in the urine suggests about:
 - i) Obstructive jaundice
 - ii) Hemolytic jaundice
 - iii) Viral hepatitis
 - iv) Toxic jaundice

O.2 Write short notes on the following:

- Write short notes on the following:

 - i) Liver function tests.
 - ii) Genetic Code and its features.
 - iii) Mechanism of action of steroid hormones.
 - iv) Essential amino acids and biological importance of proteins.
 - v) Sickle cell anemia.

1x5

Q.3 Classify 'Vitamins'. Explain biosynthesis and deficiency of Vitamin 'D'. Discuss the regulation of Calcium and Phosphorus Metabolism in detail. **10**

PART-B

Q.4 Multiple choice questions:

- a) Which one of the following is a rate limiting enzyme of gluconeogenesis?

 - i) Hexokinase
 - ii) Phosphofructokinase
 - iii) Pyruvate carboxylase
 - iv) Pyruvate kinase

b) Which one of the amino acids could serve as the best buffer at pH-7?

 - i) Glutamic acid
 - ii) Arginine
 - iii) Valine
 - d) Histidine

Annual Examination, August 2020
Bachelor of Dental Surgery – First Year
FRENCH (BDS-CDC-OE-001)

Time: 3 hrs.

Max Marks: **100**

No. of pages: **6**

Note: All questions are **compulsory**.

Section A

Compréhension Écrite

Q.1 Lisez le dialogue et répondez aux questions suivantes:

C'est ma vie.

Je m'appelle Angélica Summer, j'ai 12 ans et je suis canadienne. Ma famille et moi, nous avons déménagé (moved to) dans le sud de la France. Mon père, Frank Summer, est mécanicien ; il adore les voitures anciennes. Ma mère s'appelle Emilie Summer ; elle est infirmière dans un hôpital non loin de notre maison. Nous avons déménagé en France, parce que ma mère aime la culture de ce pays. La vie (life) en France est très différente de la vie au Canada. Ici, il fait toujours (always) chaud. Chaque dimanche, nous allons à la magnifique plage de Biarritz et nous achetons des glaces et après nous nageons dans la mer. Les Français sont très sympathiques. Nous parlons français quand nous sommes dehors, à l'école ou au marché. Mais, nous continuons de parler canadien à la maison.

(A) Répondez aux questions :
(Answer to the questions)

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a) Quel temps fait –il en France ?

b) Qu'est-ce que la famille fait le dimanche ?

Annual Examination, August 2020
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**.

Comprensión

Q.1 Lee el texto y responde a las preguntas.

10

¡Hola! Me llamo Marina. Tengo 13 años. Vivo en Sevilla. Voy (I go) al instituto Goya. Mi asignatura (subject) favorita es la historia. Yo tengo dos hermanos se llaman Juanjo y Víctor. También tengo dos perros que se llaman Jim y Jam. Los sábados por la mañana practica la natación (swimming), es mi deporte preferido (preferred). Por la tarde, hago (I do) los deberes y luego salgo (I leave) con mis amigos. Los domingos no salgo, me quedo (I stay) en casa. Por la mañana leo un poco, sobre todas novelas de ciencia ficción y por la tarde, veo (I see) la tele o navego por internet.

Preguntas

a) ¿Dónde vive Marina?

_____.

b) ¿Cuántos años tiene Marina?

_____.

c) ¿Qué es su asignatura favorita?

_____.

d) ¿Cuántos hermanos tiene y sus nombres?

_____.

e) ¿Qué hace Marina en el sábado por la tarde?

_____.

f) ¿Qué hace Marina en el domingo por la mañana?

_____.

g) ¿Cómo se llama su instituto?

_____.

h) ¿Cuántos perros tiene Marina?

_____.

i) ¿Cómo se llaman sus perros?

_____.

j) ¿Qué es su deporte preferido?

_____.

Annual Examination, August 2020
Bachelor of Dental Surgery – First Year
HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY AND
MEDICAL GENETICS (BDS-HUAN-101)

Time: 3 hrs.

Max Marks: **80**

No. of pages: 2

- Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B**. Marks are indicated against each question.
- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt the Part-A and Part-B in the separate answer sheets.

PART-A

Q.1 Multiple choice questions:

- a) Which muscle "flattens cheek against gums and teeth":
i) Orbicularis Oris
ii) Zygomaticus major
iii) Zygomaticus minor
iv) Buccinator
- b) Atlanto-axial joint is a type of:
i) Pivot
ii) Plane
iii) Saddle
iv) Ellipsoid
- c) Name the muscle which protrudes the tongue and its tip toward the opposite side.
i) Hyoglossus
ii) Genioglossus
iii) Palatoglossus
iv) Styoglossus
- d) The parotid duct opens into the:
i) Floor of the mouth at the sublingual fold
ii) Vestibule of the mouth opposite the second maxillary molar tooth
iii) Vestibule of mouth opposite the second mandibular premolar tooth
iv) Foramen cecum
- e) The posterior belly of the digastric muscle is innervated by a branch of which cranial nerve:
i) V
ii) VII
iii) IX
iv) XI

1x5

Q.2 Write short notes on the following:

- a) Development of the face.
b) Vascular supply of the heart.
c) Histology of parotid gland.
d) Waldeyer's ring
e) Functional areas of the brain.

5x5

Annual Examination, August 2020
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

- Q.1 Multiple choice questions:
- Incremental lines of enamel are called:
 - Perikymata
 - von Ebner
 - Enamel cracks
 - Striae of Retzius
 - A transient structure found during development of tooth is:
 - Enamel septum
 - Enamel lamella
 - Enamel tufts
 - Enamel spindles
 - The most numerous cell type in the pulp:
 - Fibroblast
 - Odontoblast
 - Defense cells
 - Undifferentiated mesenchymal cells
 - On the cusps of human molars and premolars, maximum thickness of enamel is about:
 - 0-1 mm
 - 2-2.5 mm
 - 3-3.5 mm
 - 4-6 mm
 - The cells of dental papilla will form:
 - Cementum
 - Pulp
 - Dentin
 - Both ii) and iii)
- 1x5**

- Q.2 Write short notes on the following:
- Zones of pulp.
 - Bone cells.
 - Classify cementum.
 - Specialized mucosa.
 - Structure of dentin.
- 5x5**

- Q.3 Discuss the various functional stages in the life cycle of the ameloblasts in detail.
- 10**

PART-B

- Q.4 Multiple choice questions:
- Eruption time of permanent Maxillary Central Incisor is:
 - 7-8 years
 - 10-12 years
 - 9-11 years
 - 9-12 years
 - The longest root is seen in:
 - Mandibular canine
 - Maxillary canine
 - Maxillary lateral incisor
 - Mandibular first premolar
 - The mesial marginal developmental groove is seen in:
 - Maxillary first premolar
 - Maxillary second premolar
 - Mandibular first premolar
 - Mandibular second premolar

Annual Examination, August 2020
Bachelor of Dental Surgery – First Year
GENERAL HUMAN PHYSIOLOGY (BDS-PHSY-101)

Time: 3 hrs.

Max Marks: **80**

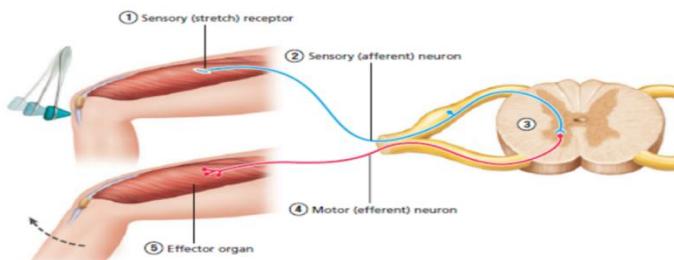
No. of pages: **2**

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PART-A

Q.1 Multiple choice questions:

- The receptor organ that generates auditory nerve impulses is:
 - Inner ear.
 - Organ of Corti.
 - Tympanic membrane.
 - Tectorial membrane.
- Immunoglobulin produced by mucosa of lungs is:
 - IgA
 - IgE
 - IgM
 - IgG
- The system of fibers maintaining the structure of cell is:
 - Actin.
 - Myosin.
 - Troponin.
 - Cytoskeleton.
- The plasma protein which plays a major role in maintaining viscosity of blood is:
 - Albumin.
 - Globulin.
 - Fibrinogen.
 - Prothrombin.
- Stretch reflex it is an example of:



- Monosynaptic reflex.
- Polysynaptic reflex.
- Asynaptic reflex.
- Bisynaptic reflex.

1x5

Q.2 Short questions:

- Differentiate between upper and lower motor neuron lesion.
- Explain the causes, effects and correction for errors of refraction.
- Differentiate between active and passive transport across a cell membrane.
- Elaborate the different methods of contraception in females and males.

Annual Examination, August 2020
Bachelor of Dental Surgery – First Year
BEHAVIOURAL SCIENCES (BDS-PSY-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

O.1 Multiple choice questions:

- a) The ability to discriminate between different feeling states and label them appropriately is termed as:

 - i) Motivation
 - ii) Emotional intelligence
 - c) Self-concept
 - iv) Self-confidence

b) Ravi has healthy self-esteem. Which of the following is NOT TRUE for Ravi?

 - i) Ravi can express his needs
 - ii) Ravi has a positive outlook on life
 - iii) Ravi has an intense fear of failure
 - iv) Ravi avoids dwelling on past, negative experiences

c) The awareness of the constancy of the self is termed as:

 - i) Categorical Self
 - ii) Existential Self
 - iii) Referent Self
 - iv) Holistic Self

d) External or objective aspects of oneself such as son, teacher, friend are termed as:

 - i) Social roles
 - ii) Self image
 - iii) Personality traits
 - iv) Social relations

e) The people we compare with ourselves are called:

 - i) Reactive groups
 - ii) Reference groups
 - iii) Exemplary groups
 - iv) Standard groups

1x5

1x5

Q.2 Write short notes on the following:

- a) Self-worth
 - b) Ideal Self
 - c) Kuhn's Twenty Statement Test
 - d) Steps to enhance self-esteem
 - e) Importance of Life Skills

6x5

Q.3 Explain the importance of self-assessment in a student's life in detail. **15**

PART-B

Q.4 Multiple choice questions:

- a) Which of the following is TRUE of eustress?

 - i) Decreases performance
 - ii) Generally short term
 - iii) Perceived outside the ability to cope
 - iv) All of the above are true

b) Which of the following is a psychological effect of stress?

 - i) Hyperventilation
 - ii) Overeating

Annual Examination, August 2020
Bachelor of Dental Surgery – First Year
RESEARCH AND INNOVATION CATALYST-I
(BDS-RIC-101)

Time: 3 hrs.

Max Marks: **80**

No. of pages: **2**

- Note: • Question Paper has **TWO** parts: **PART-A** and **PART-B**. Marks are indicated against each question.
- All questions are **compulsory**. Draw the diagrams where ever necessary.
- Attempt **Part-A** and **Part-B** in the separate answer sheets.

PART-A

Q.1 Multiple choice questions:

- a) Which of the following is not a measure of central tendency?
i) Mean ii) Standard deviation
iii) Mode iv) Median
- b) Which type of clinical examination done in oral health surveys?
i) Type I ii) Type II
iii) Type III iv) Type IV
- c) Which of the following referencing uses alphabetical ordering?
i) Harvard style ii) Vancouver style
iii) Oxford referencing iv) Chicago style
- d) Primary data is collected through:
i) Interview ii) Hospital records
iii) Reports iv) Old surveys
- e) Which of the following is not a type of research?
i) Qualitative ii) Quantitative
iii) Mixed iv) Exponential

1x5

Q.2 Short questions:

- a) Different types of scales used in a research
b) Pathfinder survey
c) Measures of dispersion
d) Method of collecting data for a knowledge, attitude and practice study design.
e) Different softwares to detect plagiarism.

5x5

Q.3 Describe the steps to assess the dental caries status of 3-5 year old school children in Faridabad city. **10**

PART-B

Q.4 Multiple choice questions:

- a) Charts and graphs facilitate:
i) comparison of values ii) to know the trend
iii) to know the relationship iv) all of the above
- b) Calibration is a process to assess:
i) Intraexaminer variation ii) interexaminer variation
iii) specificity of study iv) both i) and ii)
- c) For large country survey which sampling method of choice are to be used:
i) Multiphase sampling ii) multiple sampling
iii) cluster sampling iv) multistage sampling

10