0719E345

First B.D.S. Examination General Human Physiology and Biochemistry

Date: 26-07-2019, Friday

[Time: 3 Hours

[Max. Marks: 70

- **Instructions**: (1) Figure to the right indicates marks.
 - (2) Draw diagram wherever necessary.
 - (3) Write legibly.
 - (4) Use Separate answer books for each section.

Section A

Q.1. Describe ANY TWO

A. Define Hemostasis and describe its stages

- B. Define Blood Pressure and describe its regulation
- C. Define Deglutition and describe its stages

Q.2. Write short notes on ANY THREE

 $(3 \times 5 = 15 \text{ marks})$

 $(2 \times 7 \approx 14 \text{ marks})$

- A. Role of Chemoreceptors in regulation of Respiration
- B. Define and classify Reflexes
- C. Explain the Countercurrent Multiplier mechanism in nephron of kidney
- D. Functions and regulation of secretion of Oxytocin

Q.3. Write briefly in one or two sentences (ANY SIX)

 $(6 \times 1 = 06 \text{ marks})$

14

15

06

- A. Enumerate the functions of middle ear
- B. In Myasthenia Gravis, autoantibodies are formed against which protein?
- C. State Fick's law of Diffusion
- D. Enumerate the functions of different teeth in Mastication
- E. State the 'Subliminal fringe' property of Synapse
- F. What is Myopia?
- G. Enumerate the different types of taste sensation.
- H. Explain the cause of Pernicious Anemia?

SECTION 2 (BIOCHEMISTRY)

· Q-4 Describe the following (any two)

- A. Stem cells
- B. Glycogenolysis and its regulation
- C. Calcium Homeostasis

Q-5 Write short notes on (any three)

A. Pantothenic acid

- B. Markers of glomerular permeability
- C. Functional classification of protein
- D. Prostaglandin

如-6 Write briefly in one or two sentences (Any six)

A. Enumerate primary and secondary ketone bodies

- B. Define basal metabolic rate
- C. Define body mass index
- D. Enumerate various method for quantitative estimation of protein
- E. Recommended daily allowances of thiamine ,pyridoxine and cobalamin
- F. Write only one source reaction of NADPH
- G. Name the compounds synthesized from glycine
- H. Name fat soluble vitamins.

0719E355

Candidate's Seat No:

First B.D.S. Examination

Dental Anatomy, Embryology and Oral Histology

Date: 30-07-2019, Tuesday] [Max. Marks: 70

[Time: 3 Hours

Instructions: (1) Figure to the right indicates marks.

- (2) Draw diagram wherever necessary.
- (3) Write legibly.
- (4) Use Separate answer books for each section.

SECTION - I

1. Write briefly any two of the following.

(14)

- (a) Write about the concepts of Occlusion.
- (b) Classify oral mucous membrane. Write in detail the differences between Keratinized and Non-keratinized Oral Mucosa.
- (c) Classify cementum. Write about Chemical composition, histological structure, development and applied aspects of cementum.
- 2. Describe any three of the following.

(15)

- (a) Anatomy and histology of Maxillary Sinuses
- (b) Write in detail about Primary, Secondary and Tertiary Dentin
- (c) Write about Permanent Maxillary Lateral Incisor.
- (d) Write differences between Maxillary first and second premolars
- 3. Answer the following in one or two sentences. (Any Six)

(6)

- (a) Name the parts of gingiva.
- (b) Write dental formulae for deciduous and permanent teeth.
- (c) Enumerate the various elevations seen on a tooth surface.
- (d) Define and classify grooves.
- (e) Name the types of salivary gland acini.
- (f) What is Hertwig's epithelial root sheath?
- (g) Enumerate the functions of teeth.
- (h) What are Sharpey's Fibers?

SECTION - II

4. Write briefly any two of the following.

(14)

- (a) Write in detail about permanent mandibular first molar.
- (b) Compare and contrast permanent maxillary and mandibular canines.
- (c) Enumerate the Morphological stages of tooth development. Write in detail about cap stage.
- 5. Describe any three of the following.

(15)

- (a) Development of tongue.
- (b) Principal fibers of periodontal ligament.
- (c) Write differences between occlusal surfaces of Maxillary first and second Molars
- (d) Theories of tooth eruption.
- 6. Answer the following in one or two sentences. (Any Six)

(6)

- (a) What is hypercementosis?
- (b) What is curve of spee?
- (c) What are Mamelons?
- (d) What are anatomical and clinical crowns?
- (e) Name any three tooth numbering systems
- (f) Name the cellular zones of Pulp.
- (g) What is enamel spindle?
- (h) Name the parts of Periodontium.

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