

First B.D.S. Examination

General Anatomy including Embryology & Histology

Date : 02-01-2019, Wednesday]

[Max. Marks : 70

[Time : 3 Hours

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

SECTION-I

- Q.1 Write Notes (Any Two)** **14**
- (1) Scalp
 - (2) Posterior triangle of Neck
 - (3) Thyroid gland
- Q.2 Write Notes (Any Three)** **15**
- (1) Right atrium
 - (2) Second part of Duodenum
 - (3) Relations of the Kidney
 - (4) Ansa cervicalis
- Q.3 Answer (Any Six)** **06**
- (1) Which is the dangerous area of face? Why?
 - (2) What is Little's area? Give its importance.
 - (3) Which structures pass through foramen spinosum?
 - (4) What is Trigeminal neuralgia?
 - (5) Which is the site for Lumber puncture?
 - (6) Enumerate the muscles of Middle Ear cavity.
 - (7) What is the clinical importance of Pterion?
 - (8) Give the pathway of parasympathetic root of Pterygo-palatine ganglion.

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SECTION-II

Q.4 Write Notes (Any Two)

14

- (1) Maxillary artery
- (2) Tongue
- (3) Interior of Larynx with its applied aspects

Q.5 Write Notes (Any Three)

15

- (1) Second pharyngeal arch
- (2) Notochord
- (3) Cartilaginous joints
- (4) Histology of Liver

Q.6 Answer (Any Six)

06

- (1) Mention the type and subtype of the joints between Atlas and Axis.
 - (2) Name the structures passing through 'Sinus of Morgagni'.
 - (3) Name the components of Waldeyer's ring.
 - (4) What is End artery? give its example.
 - (5) What is endocytosis?
 - (6) Give the examples of Fibro-cartilage.
 - (7) What is Karyotyping?
 - (8) What is Spermiogenesis?
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First B.D.S. Examination

General Human Physiology and Biochemistry

Date : 04-01-2019, Friday]

[Max. Marks : 70

[Time : 3 Hours

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

SECTION A

- Q 1 Describe ANY TWO. 14
 (A) Adrenal corticoids (B) Gastric secretion (C) Cardiac cycle
- Q 2 Write short notes on ANY THREE 15
 (A) Immunity (B) Cochlea (C) Spermatogenesis (D) Visual Pathway
- Q 3 Explain ANY SIX in short. 06
 (A) Renal function tests (B) Osmosis (C) Vital Capacity (D) Chloride shift
 (E) Myxoedema (F) Functions of hypothalamus (G) Q R S Complex
 (H) Smell

SECTION-II (BIOCHEMISTRY)

Q-4 Describe the following (Any Two): 14 Marks

- A. Enumerate the various factors affecting enzyme activity. Explain enzyme inhibition.
 B. Explain Detoxification of Ammonia with urea cycle. Explain Hyperammonemia and urea cycle disorders.
 C. Enumerate biochemical functions of calcium. Explain the regulation of blood calcium level. Describes the diseases.states of abnormal blood calcium level.

Q-5 Write a short notes on (Any Three): 15 Marks

- A. Role of Hormones in regulation of blood glucose level.
 B. t-RNA
 C. Protein energy malnutrition disorders.
 D. Biochemical functions and classification of lipid.

Q-6 Write briefly in one or two sentences (Any Six): 6 Marks

- A. Fluoride is used as preservative for blood sample for glucose estimation.
 B. G6PD deficiency causes haemolysis.
 C. Zwitter ions have no mobility in electrical field.
 D. High HDL level is decrease risk of coronary heart disease.
 E. Justify the sentence - "Vitamin C deficiency causes Scurvy".
 F. Explain- "Allopurinol use in gouty arthritis".
 G. Lactose deficiency leads to milk intolerance.
 H. Lead inhibits Heme synthesis.

First B.D.S. Examination
Dental Anatomy, Embryology and Histology

Date : 08-01-2019, Tuesday]

[Max. Marks : 70

[Time : 3 Hours

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

SECTION I

Q 1. Write any two of the following : (14)

1. Compare and contrast morphological aspects of permanent mandibular first and second molars.
2. Difference between permanent and deciduous dentition.
3. Describe in detail structure of enamel rods.

Q 2. Describe any three of the following : (15)

1. Lingual aspects of permanent maxillary central and lateral incisors
2. Blood supply and nerve supply of maxillary teeth
3. Functions of pulp
4. Cap stage of tooth development

Q 3. Write in one or two sentences (Any six) (06)

1. What is mamellons ?
2. What is ugly duckling stage ?
3. Give root canal details of permanent mandibular central incisor in short.
4. What is curve of Spee ?
5. Enumerate cells of periodontal ligament.
6. What is caniculae in cementum ?
7. Give the names of ligaments of temporomandibular joint.
8. What is perikymata?

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SECTION II

Q 4. Write any **two** of the following :

(14)

1. Describe histology of hard palate in detail.
2. Describe life cycle of ameloblasts.
3. Write morphology of maxillary first premolar in detail.

Q 5. Describe any **three** of the following :

(15)

1. Cementoblast
2. Dead tracts and sclerotic dentin
3. Morphology of root canals in permanent maxillary molars
4. Eruption time and root completion time of all permanent teeth

Q 6. Write in one or two sentences (**Any six**)

(06)

1. What is embrasure ?
 2. Which are helpful muscles in elevation of mandible ?
 3. What is cingulum ?
 4. Which tooth of oral cavity contains an oblique ridge ?
 5. Which are the types of cemento enamel junction ?
 6. What is passive eruption ?
 7. What is cribriform plate ?
 8. Which is the lining epithelium of maxillary sinus ?
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