B.Sc. [Medical (Part-II)]

BF/2009/07

Anatomy

M.M. : 100 **Time : 3 Hours**

Note: Attempt all questions.

1. Classify Carpometacarpel joints. Describe first Carpometacarpel joint in detail. [16]

2. **Enumerate**: [5x3=15]
   a. Branches of posterior cord of brachial plexus.
   b. Various openings in right atrium.
   c. Branches of Right coronary artery.
   d. Flexors of wrist joint.
   e. Muscles supplied by posterior interosseous nerve.

3. **Draw labeled histological diagrams of**: [4x5=20]
   a. Oesophagus.
   b. Vas deferens.
   c. Ureter.
   d. Aorta.

4. **Write briefly**: [3x7=21]
   a. Derivatives of mesonephric ducts in males.
   b. Development of right atrium.
   c. Development of anal canal.

5. **Write short notes on**: [2x7=14]
   a. Erb's paralyses.
   b. Mid palmar space.

6. **Write briefly on**: [2x7=14]
   a. Azygos vein.
   b. Bronchopulmonary segments and their applied aspect.

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Physiology

M.M. : 100 **Time : 3 Hours**

Note: Attempt any **FIVE** *questions. Illustrate your answers with suitable diagrams.*

1. Define Hypoxia. Discuss various types of Hypoxia. [20]

2. Discuss the events of Cardiac cycle. [20]

3. **Draw labeled diagrams of the following**:
   a. Lung volumes & capacities. [10]
   b. Neuromuscular junction. [10]

4. **Write short notes on**:
   a. CO_2 transport in blood. [7]
   b. Saltatory conduction. [7]
   c. Absorption of Fat. [6]

5. **Write in brief on**:
   a. Normal ECG. [7]
   b. Hering breuer reflex. [7]
   c. Vitamin C. [6]

6. **Write briefly on**:
   a. Protein Energy Malnutrition. [7]
   b. Tetanus. [7]
   c. Baroreceptors. [6]

7. **Write short notes on**:
   a. Balanced diet. [7]
   b. Myelinogenesis. [7]
   c. Shock. [6]

8. Discuss the age related changes in human beings. Describe the factors which help to delay ageing. [20]

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Biochemistry

M.M. : 100 **Time : 3 Hours**

Note: Attempt any **FIVE** *questions.*

1. a. Describe Citric acid cycle(Kreb's cycle) in detail. [10]
   b. Give an account of uses/importance of HMP shunt or PPP pathway. [10]

2. a. Describe Ketone body metabolism. [10]
   b. Give an account of fatty acid synthesis. [10]

3. a. **Write short notes on**:
      i) Cushing's syndrome. [5]
      ii) Acromegaly. [5]
   b. Iron homeostasis. [10]

4. a. **Write short notes on**:
      i) Copper. [5]
      ii) Glycine. [5]
   b Calcium homeostasis. [10]

5. a. Describe Urea synthesis in detail. [10]
   b. Discuss Gout. [10]

6. a. Discuss Adrenal cortex hormones. [10]
   b. Discuss Oxidative deamination and its importance. [10]
