

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

BF/2008/11

Anatomy

M.M. : 100

Time : 3 Hours

Note: Attempt all questions.

1. Describe type, formation, ligaments, movements, blood supply and nerve supply of Shoulder Joint. [16]
 2. **Enumerate:** [5x3=15]
 - a. Muscles of forearm having common flexor origin.
 - b. Branches of thoracic aorta.
 - c. Structures in posterior mediastinum.
 - d. Groups of axillary lymph nodes.
 - e. Branches of deep palmar arch.
 3. **Draw labeled histological diagrams of:** [4x5=20]
 - a. Cardiac muscle.
 - b. Trachea.
 - c. Vermiform appendix.
 - d. Uterine tube.
 4. **Write briefly:** [3x7=21]
 - a. Derivatives of paramesonephric ducts in females.
 - b. Development of second part of duodenum.
 - c. Derivatives of ureteric bud.
 5. **Write briefly:** [2x7=14]
 - a. Dupuytren's contracture.
 - b. Carpel tunnel syndrome.
 6. **Write short notes on:** [2x7=14]
 - a. Arch of aorta.
 - b. Conducting system of Heart.
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Physiology

M.M. : 100

Time : 3 Hours

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

1. Describe the neural regulation of Respiration. [20]
 2. Discuss the events of excitation contraction coupling. [20]
 3. **Draw labeled diagrams of the following:** [10+10]
 - a. Growth curves of various body organs after birth.
 - b. Action potentials of Cardiac muscle.
 4. **Write short notes on:**
 - a. Acclimatization, [7]
 - b. Wallerian degeneration. [7]
 - c. Apoptosis. [6]
 5. **Write in brief on:**
 - a. Coronary circulation. [7]
 - b. Surfactant. [7]
 - c. Dietary fibres. [6]
 6. **Write briefly on:**
 - a. Antioxidants. [7]
 - b. Resting membrane potential. [7]
 - c. Starling Law of heart. [6]
 7. **Write short notes on:**
 - a. Vitamin K. [7]
 - b. Hormonal regulation of BP. [7]
 - c. Dead space. [6]
 8. Describe protein calorie malnutrition. Enumerate the main factors which precipitate it. How it can be prevented. [20]
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Biochemistry

M.M. : 100

Time : 3 Hours

Note: Attempt any FIVE questions.

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| 1a. | Describe the process of Glycolysis in detail with its energetics. | [10] |
| 1b. | Give an account of biological significance of Cholesterol. | [10] |
| 2a. | Discuss Diabetes Mellitus. | [10] |
| 2b. | Discuss metabolic functions of growth hormone. | [10] |
| 3a. | Write short notes on: | [5+5] |
| | i) Fluoride. | |
| | ii) Zinc. | |
| 3b. | Biological importance of Phenylalanine. | [10] |
| 4a. | Discuss synthesis of Thyroid hormone. | [10] |
| 4b. | Give source of Carbon and Nitrogen in Purines and Pyrimidines. | [10] |
| 5a. | Discuss β - oxidation (of fats) with its energetics. | [10] |
| 5b. | Discuss Atherosclerosis in detail. | [10] |
| 6a. | Write short notes on: | [5+5] |
| | i) Phenylketonuria. | |
| | ii) Acromegaly. | |
| 6b. | Discuss biochemical actions of epinephrine. | [10] |
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