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Course Code/Name : BM3521-Biosciences for medical engineering Regulation : 2021

<u>UPC – Student Planner</u>

| Slot | Unit .No | Name of the Unit | Questions | CO Mapping | Grade | |
|------|-------------|--|---|---------------|---------------------------------|-----|
| | | | | | A | В |
| 1 | IV | Fluid & Hemodynami c derangements | Bleeding disorder (8) WBC Disorder.(16) Hemorrhage.(8) Shock and infarction (16) Embolism & Chronic venous congestion (16) | 213.4 | 1 2 3 | 4 5 |
| 2 | v | Microbiolog y and immunopath ology | 1. Electron microscope.(16) 2. RIA.(8) 3. ELISA.(8) 4. Monoclonal Antibodies.(8) 5. Structure of bacteria and virus and common diseases (10) 6. Light microscope.(16) | 213.5 | 1 2 3 4 5 | 6 |
| 3 | Ш | Cell degeneration , repair, neoplasia | 1. Tumors with spread and types(16) 2.inflammation and Repair including fracture healing.(16) 3.Necrosis.(8) 4. Apoptosis.(8) 5. pathological calcification.(8) 6. Intracellular accumulation.(8) 7. Autopsy, biopsy.(8+8) 8. types of cell injury.(12) | 213.3 | 1 2 3 4 5 6 7 | 8 |
| 4 | п | Carbohydrat es, lipids, proteins | 1. Classification of carbohydrates, (16) 2. Classification of lipids.(12) 3. Classification of proteins.(12) 4. Watson & crick model.(16) 5. Nucleosides, nucleotides.(8+8) 6. Properties of amino acids(8). 7. Properties of carbohydrates.(10) 8. Properties of protein.(8) | 213.2 | 1 2 3 4 5 6 7 | 8 |
| 5 | I | Fundamenta ls to biochemistr y | 1.Water as biological solvent.(8) 2. Physiological buffer systems (16) 3. Properties of water (8) 4. Biological membranes (16) 5. Handerson-Hasselbalch equation (16) 6. Clinical applications of electrolytes and radioisotopes (12) | 213.1 | 1 2 3 4 5 | |
| 6 | | | Part-A Questions | | | |

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