

# B.D.S. [1<sup>st</sup> Prof.]

BF/2009/07

## Biochemistry [Old Scheme]

M.M. : 90

Time : 3 Hours

Note : Attempt all questions.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### Part – I

1. Describe Glycolysis and the ATP produced per molecule of Glucose. [15]
2. **Briefly describe:**
  - a. Plasma lipoproteins. [7]
  - b. Essential metabolites as Tyrosine. [8]
3. **Write short notes on:**
  - a. Essential fatty acids. [5]
  - b. Niacin. [5]
  - c. Glycogenolysis. [5]

### Part – II

4. Describe metabolism and toxicity of Ketone bodies. [15]
  5. **Describe briefly:**
    - a. Vitamin D. [8]
    - b. Enzyme inhibition. [7]
  6. **Write short notes on:**
    - a. Biologically important peptides. [5]
    - b. Significance of HMP shunt. [5]
    - c. Blood cholesterol. [5]
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## Dental Materials [Old Scheme]

M.M. : 90

Time : 3 Hours

Note : *Attempt all questions.*

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

### Part – I

1. Classify Impression materials. Write the composition, properties and manipulation of Zinc Oxide Eugenol impression materials. [15]
2. **Write short notes on:**
  - a. Pit and fissure sealants. [5]
  - b. Self cure acrylic resins. [5]
  - c. Hysterisis. [5]
3. What are Dental cements? Write the composition, properties and manipulation of Glass Ionomer cements. [15]

### Part – II

4. Classify Dental casting alloys. Discuss composition, properties and uses of Gold alloys. [15]
5. **Discuss in detail:**
  - a. Metal free ceramics. [7]
  - b. Casting defects. [8]
6. **Write short notes on:**
  - a. Inlay wax. [5]
  - b. Phosphate bonded investment material. [5]
  - c. Ductility and Malleability. [5]

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