

**KERALA UNIVERSITY OF HEALTH SCIENCES  
MODEL QUESTION PAPER**

**SECOND YEAR  
BACHELOR OF OCCUPATIONAL THERAPY (BOT) DEGREE EXAMINATION  
202: BIOCHEMISTRY AND PHARMACOLOGY**

**Time: 3.00 Hours**

**Maximum Marks: 100**

**Instructions:** 1. Answer All Questions

2. Write Section A and Section B in Separate Answer Books.

3. Do Not Mix Up Questions From Section A and Section B.

**QP Code: SECTION A: BIOCHEMISTRY**

**Maximum Marks: 50**

**I. Elaborate On** **(1 x 20 = 20)**

1. A) Describe fatty acid oxidation (beta and alpha oxidation)

B) Explain the synthesis of cholesterol

**II. Write Notes On** **(4 x 5 = 20)**

1. Define and classify carbohydrates

2. Define and classify hormones

3. Disorders of iron deficiency

4. Classification of vitamins according to solubility

**III. Short Answers On** **(5 x 2 = 10)**

1. Digestion of protein

2. Describe fluid mosaic model of plasma membrane

3. What are the factors maintaining blood sugar level

4. ELISA Test

5. Factors affecting enzyme activity

**QP Code: SECTION B: PHARMACOLOGY**

**Maximum Marks: 50**

**I. Elaborate On** **(1 x 20 = 20)**

1. Enumerate the various routes of drug administration with one example of drug for each.

Discuss the merits & demerits of oral route of administration

**II. Write Notes On** **(4 x 5 = 20)**

1. Classify Opioid analgesics. Mention the therapeutic uses and adverse effects of Morphine.

2. Classify general anaesthetics. Mention the drugs used for induction & drugs used for maintenance of general anaesthesia. List four objectives of premedication along with the drugs used.

3. Mention the uses & adverse effects of Omeprazole. Add a note on drugs used for eradication of H. Pylori infection

4. Mechanism of action, therapeutic uses & adverse effects of Phenytoin

**III. Short Answers On**

**(5 x 2 = 10)**

1. Name 4 beta lactam antibiotics
2. Name 4 drugs used in the treatment of hypertension
3. Name 4 local anaesthetic drugs
4. Name 4 H1 anti- histaminergic drugs
5. Name 4 non-steroidal anti-inflammatory drugs

**Remarks: Please Note**

1. Section A: Biochemistry (50 Marks)
2. Section B: Pharmacology (50 Marks)