



<b>Faculty: Medicine and Allied Health Sciences</b>	<b>Year/Part: I/I</b>
<b>Program: Pharmacy</b>	<b>Exam Year: 2080, Mangshir (Model Question)</b>
<b>Level: Bachelor</b>	<b>Subject: Pharmaceutical Biochemistry (BP105)</b>

**GROUP A (Multiple Choice Questions)**

**[10x1=10]**

- i. Answers should be given by filling the Multiple Choice Questions' Answer Sheet.
- ii. Rough can be done in the main answer sheet
- iii. Maximum time of 20 minutes within the total time is given for this group.

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| <ol style="list-style-type: none"> <li>1. Which of the following phospholipid signals for apoptosis?                     <ol style="list-style-type: none"> <li>a. Lecithin</li> <li>b. Cephalin</li> <li>c. Phosphatidylserine</li> <li>d. Plasmalogens</li> </ol> </li> <li>2. Which of the following structure of protein is not disrupted during denaturation of protein?                     <ol style="list-style-type: none"> <li>a. Primary structure</li> <li>b. Secondary structure</li> <li>c. Tertiary structure</li> <li>d. Quaternary structure</li> </ol> </li> <li>3. Which of the following is not a homopolysaccharide?                     <ol style="list-style-type: none"> <li>a. Inulin</li> <li>b. Cellulose</li> <li>c. Glycogen</li> <li>d. Agar</li> </ol> </li> <li>4. How many protons are required to form 1 ATP?                     <ol style="list-style-type: none"> <li>a. 1</li> <li>b. 2</li> <li>c. 3</li> <li>d. 4</li> </ol> </li> <li>5. Which of the following metabolic pathway is enhanced by insulin?                     <ol style="list-style-type: none"> <li>a. Gluconeogenesis</li> <li>b. Glycolysis</li> <li>c. Glycogenolysis</li> <li>d. Glyceroneogenesis</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>6. Which of the following is deficient in functional folate deficiency?                     <ol style="list-style-type: none"> <li>a. Niacin</li> <li>b. Vit B12</li> <li>c. Folic acid</li> <li>d. Pyridoxine</li> </ol> </li> <li>7. The hormone which is neither steroid nor peptide in nature is                     <ol style="list-style-type: none"> <li>a. Epinephrine</li> <li>b. Insulin</li> <li>c. Glucagon</li> <li>d. Thyroxine</li> </ol> </li> <li>8. Which of the following is not non-sense codon?                     <ol style="list-style-type: none"> <li>a. UAA</li> <li>b. UGG</li> <li>c. UAG</li> <li>d. UGA</li> </ol> </li> <li>9. Amanitin in mushroom poisoning inhibits                     <ol style="list-style-type: none"> <li>a. DNA polymerase III</li> <li>b. Helicase</li> <li>c. Amino acyl t-RNA synthetase</li> <li>d. RNA polymerase</li> </ol> </li> <li>10. Which of the following increases calcium excretion in urine?                     <ol style="list-style-type: none"> <li>a. PTH</li> <li>b. Calcitonin</li> <li>c. Calcitriol</li> <li>d. Calmodulin</li> </ol> </li> </ol> |
|---|--|

Marks Secured: \_\_\_\_\_

Code No.

In Words: \_\_\_\_\_

Examiner's Sign: \_\_\_\_\_ Date: \_\_\_\_\_

Scrutinizer's Marks: \_\_\_\_\_

In Words: \_\_\_\_\_

Scrutinizer's Sign: \_\_\_\_\_ Date: \_\_\_\_\_

**Corrected Fill**

(A) ● (C) (D)

**Incorrect Fill**

✗ (A) ● (C) (D) ✓

**Multiple Choice Questions' Answer Sheet**

1. (A) (B) (C) (D)	6. (A) (B) (C) (D)
2. (A) (B) (C) (D)	7. (A) (B) (C) (D)
3. (A) (B) (C) (D)	8. (A) (B) (C) (D)
4. (A) (B) (C) (D)	9. (A) (B) (C) (D)
5. (A) (B) (C) (D)	10. (A) (B) (C) (D)

**MANMOHAN TECHNICAL UNIVERSITY**  
**Office of the Controller of Examinations**

Budhiganga-4, Morang, Koshi Province, Nepal  
Exam Year: 2080, Mangshir

<b>Faculty: Medicine and Allied Health Sciences</b>	<b>Level: Bachelor</b>	<b>Year/Part: I/I</b>
<b>Program: Pharmacy</b>	<b>Time: 3 Hours</b>	<b>F.M.: 50</b>
<b>Subject: Pharmaceutical Biochemistry (BP105)</b>		<b>P.M.: 25</b>

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

**GROUP A (Multiple Choice Questions and Answer Sheet in separate paper) [10x1=10]**

**GROUP B (Problem Based Question) [1x10=10]**

1. A girl named Rita Chaudhary, a B pharmacy medical student at MTU, had a dinner with their friends with mushroom preparation obtained from the market. She was rushed to the nearest hospital the next morning with the chief complaints of abdominal cramps, diarrhoea and vomiting.
  - a. What might be the cause of this poisoning? [3]
  - b. Why DNA replication is considered as semi-conservative and semi-discontinuous. [4]
  - c. Explain about the post-transcriptional modification of mRNA. [3]

**GROUP C (Attempt Any Four) [4x5=20]**

2. Explain about beta-oxidation of palmitic acid with energetic.
3. Define carbohydrates and with classification and examples of each.
4. Explain digestion and absorption of protein.
5. Explain urea cycle.
6. Explain about structural organization of protein.

**GROUP D (Write Short Notes on Any Five) [5x2=10]**

7. Phenylketonuria
8. Genetic code
9. Complete protein
10. Yield products of HMP shunt pathway
11. Michaelis constant
12. Uncoupler

☪☪☪ **The End** ☪☪☪