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Total No. of Questions: 10

# B.Pharmacy (Sem.-5) PHARMACEUTICAL CHEMISTRY-V (BIO CHEM)

Subject Code: PHM-351 Paper ID: [D0122]

Time: 3 Hrs. Max. Marks: 80

### **INSTRUCTIONS TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

## **SECTION-A**

# 1. Discuss briefly:

- a) Role of porphyrins in cancer therapy
- b) Suicide enzyme
- c) What is glyoxalic acid cycle?
- d) Define nucleoside and nucleotide.
- e) Write significance and metabolic disorder of urea cycle.
- f) How many ATP molecules are formed when palmitic acid is metabolized?
- g) What is active transport?
- h) Write about the inhibitors of oxidative phosphorylation?
- i) Define galactosemia.
- j) What is meant by PCR?
- k) How does insulin regulate blood glucose?

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- 1) Define ATP and its biological significance.
- m) Give various types of RNA's and their role.
- n) Name the coenzyme forms of riboflavin and their biochemical role.
- o) Give the functions of ubiquinone.

### **SECTION-B**

- 2. Explain the fate of glucose in the body.
- 3. Write a note on transamination and decarboxylation of amino acids.
- 4. Enumerate the reactions of purine degradation and add a note on Gout.
- 5. Explain the salient features of allosteric inhibition.
- 6. Explain the mechanism by which electron transport chain is linked with ATP generation.

# SECTION-C

- 7. Write short notes on:
  - a) Metabolism of tryptophan
  - b) Glycogenolysis
- 8. Explain in detail the de novo synthesis and  $\beta$  oxidation of stearic acid.
- 9. What are the various steps that takes place in gluconeogenesis? Give its importance.
- 10. Write short note on:
  - a) Mutations
  - b) Eicosanoids

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