

Roll No.

Total No. of Questions : 10]

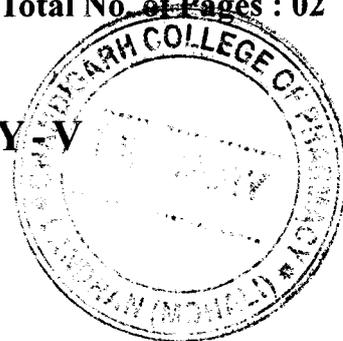
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B.Pharmacy (Sem.-5th)
PHARMACEUTICAL CHEMISTRY - V
(Biochemistry)

SUBJECT CODE : PHM - 3.5.1

Paper ID : [D0122]

[Note : Please fill subject code and paper ID on OMR]



Time : 03 Hours

Maximum Marks : 80

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Three** questions from Section - C.

Section - A

Q1)

(15 × 2 = 30)

- a) What are high energy compounds?
- b) What is Galactosemia?
- c) What are the abnormal constituents present in urine?
- d) What are sphingolipids?
- e) What are transamination reactions?
- f) What is the significance of HMP pathway?
- g) Define co-factor and apoenzymes.
- h) Name any two sulphur containing amino acids.
- i) Name two inhibitors in protein synthesis.
- j) Define nucleoside and nucleotide.
- k) What is PCR?
- l) Metabolic disorder of urea cycle.
- m) What is glyoxalic acid cycle?
- n) What is the significance of Km in enzymatic reactions?
- o) What are eicosanoids?

Section - B

(4 × 5 = 20)

- Q2)** Describe biosynthesis of purine bases.
- Q3)** Describe urea cycle, with significance.
- Q4)** What are ketone bodies? How they are metabolized?
- Q5)** Explain the chemistry of D.N.A.
- Q6)** Explain the biosynthesis of lipids.

Section - C

(3 × 10 = 30)

- Q7)** Describe complete oxidation of glucose, with energy diagram.
- Q8)** Write a note on ————
- (a) β ———— oxidation of fatty acids
 - (b) Biosynthesis of cholesterol.
- Q9)** Write a note on :
- (a) Mechanism of oxidative phosphorylation.
 - (b) Protein biosynthesis.
- Q10)** Derive Michaelis – Menton equation.

