

Date:- 1-4-16

B. Pharmac / Sem-III CBSGS/RT
BC-II

Q.P. Code : 24933

(3 Hours)

[Total Marks : 70

N.B. : (1) All questions are compulsory.

1. (a) Enzyme responsible for activation of fatty acid to acyl CoA is..... 1
(b) Draw the structure of cytosine. 1
(c) DNA polymerase α is responsible for synthens of RNA primer for leading & lagging strand in eukaryotic cell - True or False. 1
(d) Define Glycogenolysis and state the role of glycogen phosphorylase. 2
(e) Name any two tissues that are highly active in HMP shunt. 2
(f) Name two drugs used to decrease serum cholesterol level. 2
(g) Name one disorder each of purine and pyrimidine metabolism. 2
(h) Name inhibitors of purine synthesis. 2
(i) Write the names of promoter sites in prokaryotic cell. 2
2. (a) Give the names and structures of substrate and products of the following enzyme reactions. (any two) 4
(i) Enolase
(ii) HMG CoA lyase
(iii) isocitrate dehydrogenase
(b) Write the names of enzymes catalysing following reactions. 4
(i) β - Hydroxybutyrate to Acetoacetate
(ii) Malate to oxaloacetate
(iii) 6 - Phosphogluconate to Ribulose 5 - phosphate
(iv) Adenylsuccinate to Adenosine monophosphate
(c) Describe the multiprotein complex of electron transport chain. 3
3. (a) Discuss in detail the energy generation phase of glycolysis. 4
(b) Justify DNA replication is semiconservative and semidiscontinuous. 4
(c) Write the reactions of ketone body synthesis. 3
4. (a) Explain the alterations occurring on primary transcript to functional transcript of eukaryotic mRNA. 4
(b) (i) Comment on regulation of purine nucleotide biosynthesis. 2
(ii) Write the significance of salvage pathway for Purines. 2
(c) What is oxidation. Explain energetics of palmitic acid oxidation. 4
5. (a) Write a note on DNA sequencing 4
(b) Describe inhibitors of protein synthesis. 4
(c) Explain glycogenesis. 3

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6. (a) Describe DNA polymorphism. 3
(b) Explain process of peptide synthesis by Edman's method. 3
(c) Write the reactions of biosynthesis of AMP & GMP from IMP 3
(d) Write different types & functions of RNA polymerase present in prokaryotic cells. 2
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Course: S.Y. BACHELOR OF PHARMACY (SEMESTER - III) (CBSGS) (Prog T9923)

QP Code: 24933

Correction:

Q.no. 1(c)

Read As:

DNA polymerase.....**Synthesis**.....True or false

Instead of:

DNA polymerase.....**Synthens**.....True or false

Q.no. 4(c)


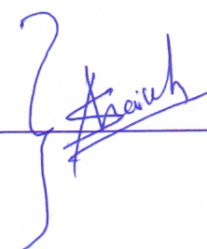
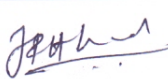
Read As:

Marks 3

Instead of:

Marks 4

Query Update time: 01/04/2016 11: 35 AM

| BL NO | SR NO | Student Exam Seat NO | Sign | JS. Sign |
|-------|-------|----------------------|---|---|
| 01 | 1 | PHC3019 |  |  |
| | 2 | PHC3002 |  | |