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| Roll No. | Total No. of Pages : 02 |
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Total No. of Questions: 24

B.Pharma (2012 to 2016) (Sem.-5) PHARMACEUTICAL CHEMISTRY-V (Biochemistry)

Subject Code : BPHM-501 M.Code : 70427

Time: 3 Hrs. Max. Marks: 80

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

Discuss brief:

- What is the effect of pH and temperature on enzyme activity?
- Ketone bodies
- Sphingolipids
- Gluconeogenesis
- Function of tRNA
- How bilirubin is conjugated?
- Explain the amphibolic role of kreb's cycle.
- What is allosteric modification of enzyme? Give example.
- Discuss one glycogen storage disorder.
- 10. What are the sources of carbon and nitrogen in pyrimidine ring?

1 | M-70427 (S4)-695



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- 11. What is the significance of HMP pathway?
- Define Coenzyme and Cofactor.
- Mention various pathways where glucose-6-phosphate can enter.
- Name essential fatty acids and write their role.
- What are the inhibitors of protein synthesis? Give examples.

SECTION-B

- Write in details about β-oxidation of fatty acid.
- What is oxidative phosphorylation? Explain rotary motor model for ATP generation.
- 18. How heme synthesis is regulated?
- 19. Give the synthesis of various prostaglandins and their biochemical actions.
- What is recombinant DNA technology? Give its applications.

SECTION-C

- What is enzyme inhibition? Explain in detail about reversible inhibitions along with examples.
- 22. Explain in detail about the biosynthesis of purine ribonucleotides.
- 23. Define Transcription Explain various steps involved in this process?
- a) Explain in detail the aerobic metabolism of glucose.
 - b) Define Genetic Code. Give various characteristics of genetic code.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M-70427 (S4)-695

