

[Total No. of Questions - 14] [Total No. of Printed Pages - 2]
(2125)

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B. Pharmacy 5th Semester Examination
Pharmaceutical Chemistry-V (Biochemistry) (NS)
BP-351

Time : 3 Hours

Max. Marks : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : The answer must be supported with chemical structures wherever necessary.

SECTION - A

Answer any TWO:

1. Discuss in detail about glycolysis. Add a note on production and biological significance of ATP. (10)
2. Explain in detail about beta oxidation and its energetics. (10)
3. Discuss in detail about the urea cycle. (10)

SECTION - B

Answer any EIGHT:

4. Write short notes on biochemical organization of cell. (5)
5. Write notes on oxidative phosphorylation. (5)
6. Discuss the theories of mechanism of action of enzymes. (5)
7. Write notes on gluconeogenesis. (5)
8. Write notes on glyoxalic acid cycle. (5)

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9. Write short notes on phospholipids. (5)
10. Write notes on purine biosynthesis. (5)
11. Write notes on formation of bile pigments. (5)
12. Write notes on biosynthesis of DNA. (5)
13. Write notes on components of protein synthesis. (5)

SECTION - C

Attempt All:

14. Write notes on:
 - (a) Concept of free energy.
 - (b) Isoenzymes in clinical diagnosis.
 - (c) Galactosemia.
 - (d) Prostaglandins.
 - (e) Hyoperbilirubinemia. (5×2=10)