

11720 SOUTH WESTERN PHARMACY
ALUMNI ASSOCIATION WOGA
President

Roll No.

Total No. of Questions: 10

Total No. of Printed Pages: 5

**PHM-3.5.1 PHARMACEUTICAL
CHEMISTRY-V (BIOCHEMISTRY)**
[B.Pharmacy, 5th SEMESTER, 2056]

Time: 3 Hours

Maximum Marks: 80

Note: Section A contains 15 sub questions. Write
all the question each carries 2 marks.

Section B contains 5 sub question, write any
four each carries. each carries 5 marks.

Section C contains 4 Question, write any
three . each carries 10 marks.

P-437

Turn over

(2)

SECTION - A

(15x2=30)

(a) Name the different organelles present in an animal cell.

(b) What is passive transport?

(c) Write the structure of ATP and mention one biological significance of ATP.

(d) What is an enzyme, coenzyme and an isoenzyme.

(e) Name one metal which functions as a coenzyme.

(3)

- (f) Name two B family members who act as coenzymes.
- (g) How many ATP molecules are formed during glycolysis.
- (h) Significance of pentose phosphate pathway.
- (i) How many ATP molecules are formed during CAC cyclic. (TCA)
- (j) Knoop theory.
- (k) W-oxidation
- (l) What are essential fatty acids
- (m) Name two inhibitors of respiratory chain.
- (n) Significance of urea cycle.
- (o) Name two purines and two pyrimidines.

P-437

Turn over

(4)

SECTION - B

(4x5=20)

2. Explain any three factors which effect the enzyme activity.
3. Explain the role of naiacin as cofactor or coenzyme of any three enzymes.
4. What is β -oxidation. Mention the site, reactions and energetic involved in break down of one palmatic acid involved.
5. Explain how sulphur is incorporated into organic compounds.
6. Write a note on Transmination and decarboxylation of amino acids.

P-437

(5)

SECTION – C

(3x10=30)

7. Explain in detail-what is gluconogenesis?
8. What is oxidation phosphosylation? Explain the mechanism of oxidative phosphorylation and how ATP is formed.
9. Discuss the biosynthesis of purines.
10. What is genetic code. Explain its salient features and add a note on wobble hypothesis.

P-437

Turn over