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Invigilator's Signature :	

# CS/B.PHARM(OLD)/SEM-5/PT-504/2011-12 2011

# PHARMACEUTICAL CHEMISTRY (BIOCHEMISTRY)

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

#### GROUP - A

## ( Multiple Choice Type Questions )

1. Choose the correct alternatives for any ten of the following:

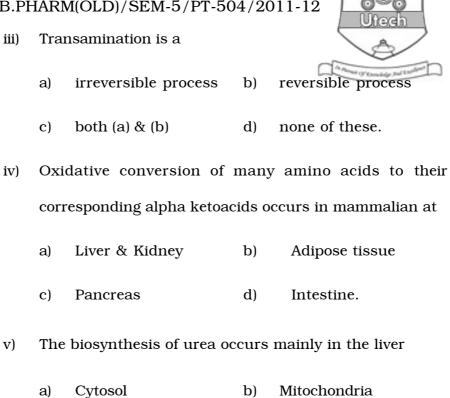
 $10 \times 1 = 10$ 

- i) Sulphur containing amino acids after catabolism produces a substance which is excreted
  - a)  $SO_2$

- b) HNO<sub>3</sub>
- c)  $H_2 SO_4$
- d)  $H_3 PO_4$ .
- ii) The end product of amino acid nitrogen metabolism in uricotelic animals is
  - a) Bilirubin
- b) Urea
- c) Uric acid
- d) Biliverdin.

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- The transaminase activity needs the co-enzyme vi)
  - ATP a)

c)

Microsome

 $B_6 PO_4$ 

Nuclei.

d)

FAD+ c)

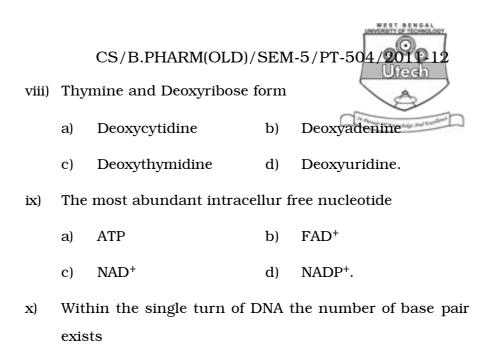
- d) NAD+.
- The purine nucleotides act as the components of vii)
  - a) FAD+

b) NAD+

NADP+ c)

all of these. d)

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- xi) DNA is denatured by
  - a) heat

4

8

a)

c)

b) acid

6

10s.

b)

d)

c) alkali

d) none of these.

## **GROUP - B**

#### (Short Answer Type Questions)

Write short notes on any three of the following.

 $3 \times 5 = 15$ 

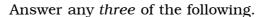
- 2. Positive nitrogen balance & Negative nitrogen balance.
- 3. Salvage pathway of purine nucleotides.
- 4. Name the purine & pyrimidine bases found in nucleic acids.
- 5. Synthesis of urea in human body.

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#### (Long Answer Type Questions)





- 6. Draw DNA double helix, describe its main features and add notes on DNAs functions.
- 7. Name the different types of RNAs. Write main features and functions of mRNA.
- 8. Describe the metabolic fate of Phenyl alanine & Tyrosine in the body and its importance in biochemistry.
- 9. Explain the following:
  - a) DNA as gene
  - b) Denaturation of DNA
  - c) Carcinogens
  - d) Mutations.

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