



SLR-TV – 12

Seat No.	
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**B.Pharm. (Old CBCS) (Semester – II) Examination, 2018**  
**BIOCHEMISTRY – II**

Day and Date : Friday, 14-12-2018

Max. Marks : 70

Time : 2.30 p.m. to 5.30 p.m.

1. Multiple choice questions :

(1×15=15)

- 1) Ninhydrin forms a purple colour complex with \_\_\_\_\_
  - a) Urea
  - b) Peptide bond
  - c)  $\alpha$ -Amino acids
  - d) Histamine
- 2) The optically inactive amino acid is \_\_\_\_\_
  - a) Glycine
  - b) Serine
  - c) Threonine
  - d) Valine
- 3) DNA rich in A-T pairs have \_\_\_\_\_
  - a) 1 Hydrogen bond
  - b) 2 Hydrogen bonds
  - c) 3 Hydrogen bonds
  - d) 4 Hydrogen bonds
- 4) Codons are present on \_\_\_\_\_
  - a) Template strand of DNA
  - b) mRNA
  - c) tRNA
  - d) rRNA
- 5) An aromatic amino acid is
  - a) Lysine
  - b) Arginine
  - c) Phenylalanine
  - d) Histidine
- 6) The process of transfer of amino group from an amino acid to keto acid called as \_\_\_\_\_
  - a) Oxidative deamination
  - b) Nonoxidative deamination
  - c) Transdeamination
  - d) Transamination

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- 7) Replication of DNA is \_\_\_\_\_
- a) Conservative                                  b) Semi-conservative  
c) Non-conservative                              d) None of above
- 8) The  $p^H$  at which amino acid exists as zwitter ion called as \_\_\_\_\_
- a) Cation    b) Anion  
c) Isoelectric  $p^H$                                       d) Undissociated ion
- 9) Folding or twisting of polypeptide chain is called as \_\_\_\_\_
- a)  $\alpha$ -helix    b)  $\beta$ -sheets  
c) Parallel sheets                                      d) Antiparallel sheets
- 10) In feedback regulation, the end product binds at \_\_\_\_\_
- a) Active site    b) Allosteric site  
c) E-S complex    d) None of these
- 11) The reagent used in sequenator to find amine acid sequence is \_\_\_\_\_
- a) Sanger's reagent                                      b) CNBr reagent  
c) Trypsin    d) Edman's reagent
- 12) The imino acid found in protein structure is \_\_\_\_\_
- a) Argenine    b) Proline  
c) Histidine    d) Lysine
- 13) Deficiency of Vitamin D causes \_\_\_\_\_
- a) Rickets    b) Beri-Beri  
c) Night blindness    d) Pellagra
- 14) What is the name of Vitamin B1 ?
- a) Thiamine    b) Pyridoxine  
c) Niacin    d) Biotin
- 15) \_\_\_\_\_ vitamin is having antioxidant property.
- a) A    b) D  
c) E    d) K



2. Answer **any five** of the following questions :

(5×5=25)

- 1) Explain Zwitter ions and isoelectric precipitation.
- 2) Explain lock and key theory and induced fit theory.
- 3) Add note on denaturation of proteins.
- 4) Explain reversible, irreversible inhibition of enzymes.
- 5) Give detail about gene, genome and its characteristics.
- 6) Give in details about Replication of DNA.

3. Answer **any three** of the following questions :

(3×10=30)

- 1) What are the different levels at which proteins structure is studied ?
  - 2) Add note on protein biosynthesis.
  - 3) Give the complete account of fat soluble vitamins.
  - 4) Give in brief factors affecting enzymatic reaction.
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