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# B.Sc. (Part - I) (Semester - I) Examination, November-2018
## BIOCHEMISTRY (Optional)
## Biomolecules - I (Paper - I)
## Sub. Code : 59669

**Day and Date : Saturday, 17 - 11 - 2018** **Total Marks : 50**
**Time : 3.00 p.m. to 5.00 p.m.**

**Instructions :** 1) **All questions are compulsory.**
2) **Draw neat labelled diagram whenever necessary.**
3) **Figures to the right indicate full marks.**

**Q1)** Rewrite the sentence using a correct alternative. **[10]**

a) _____ is an example of Heterocyclic amino acid.

i) Proline ii) Glycine

iii) Methionine iv) None of these

b) _____ is an example of aromtic amino acid.

i) Proline ii) Glycine

iii) Tryptophan iv) None of these

c) The _____ bond is synthesized when the carboxyl group of one amino acid molecule reacts with the amino group of the other amino acid molecule.

i) Peptide ii) Glycosidic

iii) Ketonic iv) Coordination

d) Structural level of hemoglobin is _____

i) Primary ii) Secondary

iii) Quaternary iv) None of these

***P.T.O.***

e) Lactose is also known as _____

i) Milk sugar ii) Honey

iii) Invert syrup iv) None of these

f) Sucrose does not give Fehling test because of _____sugar.

i) Non-reducing ii) Sweet

iii) Reducing iv) Bitter

g) _____ derived Monosaccharides found in DNA.

i) β-D-ribose ii) β-D-ribose

iii) β-D-deoxy ribose iv) Both (i) and (ii)

h) Cellulose is homoglucopolymer of _____ sugar.

i) Glucose ii) Fructose

iii) Galactose iv) Maltose

i) Human storage polysaccharide is _____

i) Starch ii) Cellulose

iii) Glycogen iv) None of these

j) _____ is a doubly charged species formed at isoelectric pH.

i) cation ii) anion

iii) Zwitterion iv) None of these

**Q2)** Attempt any Two of the following. **[20]**

a) Write a note on derived monosaccharides.

b) Write a note on peptide bond and classification based on function of protein.

c) Write a note on disaccharides.

**Q3)** Attempt any FOUR of the following. **[20]**

a) Ninhydrin reaction.

b) Hydrocarbon chain amino acids.

c) Tertiary structure (myoglobin)

d) Fehling test.

e) Glycogen

f) Behavior of glycine in acidic and basic condition.

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