

**Avinashilingam Institute for Home Science and Higher Education for Women
[Deemed to be University] Coimbatore-641 043**

**Bachelor's Degree Examination – November 2018
III Semester**

**Class : II UG
Major : Food Science and Nutrition/
Chemistry**

**Time: 3 hours
Max. Marks: 100**

**15BFNI04 DSE – III/11BFNI04 Allied - III Chemistry and Metabolism of Biomolecules
15BCHI04 DSE- III Biochemistry Theory**

**Part-A
Choose the correct answer**

10 x 1=10

1. The synthesis of glycogen from glucose is known as:
a) glycogenolysis b) gluconeogenesis c) glycogenesis d) the Embden-Meyerhof pathway
2. If the glucose level in the body is high, it is called:
a) homeostasis b) hyperglycemia c) hypoglycemia d) glycogenolysis
3. The fatty acids present in cerebrosides is
a) Lignoceric acid b) valeric acid c) caprylic acid d) behenic acid
4. Molecular formula for cholesterol is
a) $C_{27}H_{45}OH$ b) $C_{29}H_{47}OH$ c) $C_{27}H_{47}OH$ d) $C_{23}H_{41}OH$
5. Which of the following amino acids is considered as both ketogenic and glucogenic?
a) Valine b) Tryptophan c) Lysine d) None of these
6. Transaminase enzymes are present in
a) liver b) pancreas c) intestine d) none of these
7. The basic repeating units of DNA molecule is
a) nucleoside b) nucleotide c) histones d) aminoacids
8. A nucleoside is composed of
a) a base + a sugar b) a base + a sugar+ a phosphate
c) a base+ a phosphate d) none of these
9. Which of the following statements about enzymes or their function is true?
a) Enzymes do not alter the overall change in free energy for a reaction
b) Enzymes are proteins whose three-dimensional form is key to their function
c) Enzymes speed up reactions by lowering activation energy
d) All of the above
10. A holoenzyme is
a) functional unit b) apo enzyme c) coenzyme d) all of the above

