Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA
SEMESTER END THEORY EXAMINATION
Degree: B.Sc. (Hons) Horticulture

Semester : I (New) Term : I Academic Year : 2021-2022

Course No. : H/BIOCHEM-111 Title : Elementary Plant Biochemistry

Credits : 2=(1+1)

Day & Date : Tuesday 23/11/2021 Time : 4.00-5.00 Total Marks : 40

Note: 1) Solve ANY FOUR questions from SECTION-A
2) Solve ANY SIX questions from SECTION-B
3) All questions from SECTIONS –C are Compulsory
4) Send the PDF file of answer sheet to Email ID of respective course teacher

	SECTION-A
	(Write the answers in 4-5 sentences only. Each question carries 4 marks.)
Q.1	Define cell. Enlist different plant cell organelles with their functions.
Q.2	Enlist step involved in glycolysis.
Q.3	Define amino acid .classify amino acids on the basis of composition.
Q.4	Define carbohydrate and classify them with suitable example.
Q.5	Define vitamins classify them with deficiency disorder.
	SECTION-B
	(Write the answers in one sentence only. Each question carries 2 marks.)
Q.6	**Define following terms.** 1. Glycogenesis 2. Nucleotides 3. Catabolism 4. Peptide 5. Prosthetic group 6. Enzyme immobilization 7. Biomolecule
	SECTION "C"
Q.7	**(Choose the correct option. Each question carries 1 mark.)** **1.** The second stage of photosynthesis is the a) Kreb's cycle b) C3 c) C4 d) Calvin cycle

2. Transmission of hereditary character is function of _____
   a) RNA
   b) DNA
   c) RNA and DNA
   d) None of these

3. The hydrolysis of fat by alkali is called as
   a) Saponification
   b) Fat hydrolysis
   c) Sacrification
   d) Alkali hydrolysis

4. _____ is the example of non reducing sugar
   a) Maltose
   b) Sucrose
   c) lactose
   d) Both A and C

5. Vitamin C also known as
   a) Panthothenic acid
   b) lenolenic acid
   c) Ascorbic acid
   d) Folic acid

6. Sulphur containing amino acid____
   a) Lysine
   b) Metheonine
   c) Cysteine
   d) Both B and C

7. Which organic substance in plants that are responsible in imparting yellow colour to plant parts
   a) Carotene
   b) Anthocynin
   c) Anthoxanthin
   d) Xanthophyll

8. Derivatives of protein due to action of heat,enzyme,and chemical reagents called as___
   a) Simple Protein
   b) Congugated Protein
   c) Derived Protein
   d) Glycoprotein

9. Father of modern biochemistry___
   a) Anton levoisier
   b) Alexander Fleming
   c) Liebig
   d) Carl Neuberg

10. _____ is storage polysaccharides.
   a) Cellulose
   b) Starch
   c) Glycogen
   d) Both B and C

11. The term protein coined by
   a) Mulder
   b) Berzelius
   c) Kuhne
   d) Buchner

12. ____ are organic acid which contain both basic and acidic groups.
   a) Nucleic acid
   b) Amino acid
   c) Fumaric acid
   d) Malic acid.