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1ST YEAR REVISION & TEST SESSION

NAME:			ROLL NO:		TIME:	50: MIN
SUB:	Biology	Date:			CLASS:	1st Year
SYLLABUS	Chp. 4 (Moleculary Biology)		T. MARKS	30	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x6=6)

1. **Which characteristic of water molecules is responsible for most of the unique properties of water:**
   (A) Small in size (B) Held together by covalent bonds
   (C) Can easily separate from one another (D) Stick together
2. **Which of the following is NOT a protein:**
   (A) Haemoglobin (B) Cholesterol
   (C) Pepsin (D) Antibody
3. **What compound would be manufactured difficulty when soil has a shortage of phosphorous:**
   (A) DNA (B) Fatty acids
   (C) Protein (D) Cellulose
4. **Which group is found in all fatty acids:**
   (A) PO_2 (B) SO_4
   (C) C-N (D) COOH
5. **Haemoglobin has:**
   (A) Primary structure (B) Secondary structure
   (C) Tertiary structure (D) Quaternary structure
6. **Which process produces peptide bonds:**
   (A) Digestion (B) Dehydration synthesis
   (C) Hydrolysis (D) Enzyme deactivation

PART-I

Q. 2 Write Short Answers of the Following Questions (2x8=16)

i. Draw a sketch of hydrolysis reactions.
ii. Draw the ring structure of glucose and fructose.
iii. Draw the sketch of amino acid.
iv. Draw the sketch of acylglycerol, phospholipid and terpene.
v. IIlustrate the formation of phosphodiester bond.
vi. State the central dogma of gene expression.
vii. How do steroid differ structurally and functionally from other lipids?
viii. What roles do transfer RNA (tRNA) play in protein synthesis?

PART-II

Write Answers of the Following Questions in Detail.

Q. 3 (a) Explain how the solvent properties if water make it the medium of life. 4
(b) Justify the significance of the sequence of amino acids through the example of sickle cell haemoglobin. 4

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Answer Key							
1	D	**2**	B	**3**	A	**4**	D
5	D	**6**	B				