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NEET BIOMOLECULES (BIOLOGY) — LIPIDS — PYQS

Max. Marks: 44 **Questions:** 11

Section A (MCQ) — 11 questions

Q.1 Lecithin, a small molecular weight organic compound found in living tissues, is an example of: [NEET (UG) 2024]

(1) Amino acids (2) Phospholipids
(3) Glycerides (4) Carbohydrates

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Q.2 Which of the following are not fatty acids?

A. Glutamic acid B. Arachidonic acid
C. Palmitic acid D. Lecithin
E. Aspartic acid

Choose the correct answer from the options given below : [RE-NEET (UG) 2024]

(1) C, D and E only (2) A and B only
(3) A, D and E only (4) B and C only

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Q.3 Read the following statements on lipids and find out correct set of statements :

A. Lecithin found in the plasma membrane is a glycolipid
B. Saturated fatty acids possess one or more C=C bonds
C. Gingelly oil has lower melting point, hence remains as oil in winter
D. Lipids are generally insoluble in water but soluble in some organic solvents
E. When fatty acid is esterified with glycerol, monoglycerides are formed

Choose the correct answer from the options given below: [NEET (UG) 2022]

(1) A, B and C only (2) A, D and E only
(3) C, D and E only (4) A, B and D only

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Q.4 Following are the statements with reference to 'lipids'.

A. Lipids having only single bonds are called unsaturated fatty acids
B. Lecithin is a phospholipid.
C. Trihydroxy propane is glycerol
D. Palmitic acid has 20 carbon atoms including carboxyl carbon.
E. Arachidonic acid has 16 carbon atoms.

Choose the correct answer from the options given below. [NEET (UG) 2021]

(1) B and E only (2) A and B only
(3) C and D only (4) B and C only

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Q.5 Which of the following are not polymeric? [NEET 2017]

(1) Proteins (2) Polysaccharides
(3) Lipids (4) Nucleic acids

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Q.6 A typical fat molecule is made up of [NEET 2016 (Phase 1)]

(1) one glycerol and one fatty acid molecule
(2) three glycerol and three fatty acid molecules
(3) three glycerol molecules and one fatty acid molecule
(4) one glycerol and three fatty acid molecules.

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Q.7 A phosphoglyceride is always made up of [NEET 2013]

(1) a saturated or unsaturated fatty acid esterified to glycerol molecule to which a phosphate group is also attached.
(2) a saturated or unsaturated fatty acid esterified to a phosphate group which is also attached to a glycerol molecule.
(3) only a saturated fatty acid esterified to a glycerol molecule to which a phosphate group is also attached.
(4) only an unsaturated fatty acid esterified to a glycerol molecule to which a phosphate group is also attached.

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Q.8 Which one of the following biomolecules is correctly characterized? [AIPMT 2012 (Mains)]

(1) Lecithin – a phosphorylated glyceride found in cell membrane.

(2) Palmitic acid – an unsaturated fatty acid with 18 carbon atoms.

(3) Adenylic acid – adenosine with a glucose phosphate molecule.

(4) Alanine amino acid – contains an amino group and an acidic group anywhere in the molecule.

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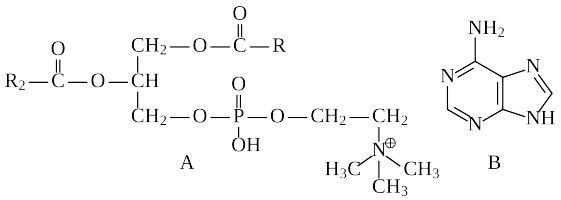
Q.9 Which one of the following structural formulae of two organic compounds is correctly identified along with its related function?

[AIPMT 2011 (Prelims)]



(1) B : Adenine – A nucleotide that makes up nucleic acids

(2) A : Triglyceride – Major source of energy

(3) B : Uracil – A component of DNA

(4) A : Lecithin – A component of cell membrane

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Q.10 Lipids are insoluble in water because lipid molecules are [AIPMT 2002]

(1) hydrophilic (2) hydrophobic

(3) neutral (4) zwitterions.

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Q.11 Spoilage of oil can be detected by which fatty acid? [AIPMT 2001]

(1) Linolenic acid (2) Erucic acid

(3) Linoleic acid (4) Oleic acid

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	**2**	**3**	**3**	**4**	**3**	**4**	**1**	**1**	**4**	**2**	**2**