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Class: 11
Subject: Biology
Topic: Bio - Molecules
No. of Questions: 25

Q1. Name the abundant proteins in biosphere?

Q2. Lipids are not bio macromolecules why?

Q3. Which lipid can cause heart ailment?

Q4. What are micro- nutrients?

Q5. Enlist three properties of enzymes?

Q6. Enumerate differences between DNA & RNA?

Q7. Why are monosaccharide's sugars are known as reducing sugars?

Q8. How does temperature affects enzyme catalysed reaction?

Q9. What is enzymatic competitive inhibition? Give one example?

Q10. How does enzymes brings about high rate of chemical conversions?

Q11. What are nucleic acids? Describe the structure of DNA.

Q12. Identify the polymer which makes exoskeleton of insects.

Q13. Name the following:- i) sugar present is DNA ii) Base not found in DNA

Q14. Why proteins are called biological polymer?

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Q15. Which molecule has the capacity to duplicate?

Q16. What is metabolism? Mention the role of enzymes is metabolism?

Q17. Why are enzymes called as biocatalyst?

Q18. Give the functions of carbohydrates?

Q19. What do you meant by activation energy?

Q20. List the different types of lipids

Q21. Which one of the following is wrong statement?

(a) Phosphorus is a constituent of cell membranes, certain nucleic acids and all proteins
(b) Nitrosomonas and Nitrobacter are chemoautotrophs
(c) Anabaena and Nostoc are capable of fixing nitrogen in free-living state also
(d) Root nodule forming nitrogen fixers live as aerobes under free-living conditions

Q22. Which one is the most abundant protein in the animal world?
(a) Collagen
(b) Insulin
(c) Trypsin
(d) Haemoglobin

Q23. The catalytic efficiency of two different enzymes can be compared by the
(a) Molecular size of the enzyme
(b) The PH optimum value
(c) The K_m value
(d) Formation of the product

Q24. Which one of the following amino-acids was not found to be synthesized in Miller's experiment?
(a) Glutamic acid
(b) Aspartic acid
(c) Glycine
(d) Alanine

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Q25. Example of a typical homopolysaccharide is
(a) Inulin
(b) Suberin
(c) Lignin
(d) Starch