



BIOLOGY

NEET & AIIMS

Mock Test 03

Example

1. Which of the following is a secondary metabolite?

A. Amion acids

B. Sugars

C. Chlorophyll

D. Alkaloids

Answer: D



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2. Xarbohydrates mainly contain

A. C, H, O

B. C, H, N

C. C, H, S

D. C, H, O, N

Answer: A



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3. Which of the following is a monosaccharide?

A. Lactose

B. Maltose

C. Glucose

D. Sucrose

Answer: C



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4. Fructose is a

A. Triose sugar

B. Pentose sugar

C. Hexose sugar

D. Heptose sugar

Answer: C



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5. Sucrose is a disaccharide formed of two subunit sugars which are

A. Glucose + Fructose

B. Galactose + Glucose

C. Glucose + glucose

D. Galactose + Fructose

Answer: A



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6. Which of the following is a non-reducing sugar?

A. Sucrose

B. Maltose

C. Lactose

D. Glucose

Answer: A



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7. Which of the following statements is incorrect?

A. Biomolecules found in acid insoluble fraction are macromolecules

B. Lipids are not strictly macromolecules

C. Micromolecules have molecular weight in the range of 18-800 daltons approximately

D. All macromolecule have weight in the range below ten thousand daltons

Answer: D



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8. Inulin is a polymer of

A. Fructose

B. Glucose

C. Ribose

D. Sucrose

Answer: A



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9. Which derived monosaccharide is component of bacterial cell wall?

A. Dexoyribose

B. N-acetyl glucosamine

C. Mannitol

D. Ascorbic acid

Answer: B



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10. Which of the following is a heteropolysaccharide?

A. Peptidoglycan

B. Chitin

C. Cellulose

D. Starch

Answer: A



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11. Which of the following is not a storage polysaccharide?

A. Starch

B. Glycogen

C. Inulin

D. Cellulose

Answer: D



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12. In which of the following , cellulose content is maximum?

A. Cotton fibres

B. Wood

C. Rayon

D. Silk

Answer: A



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13. Which of the following is the most abundant carbohydrate in biosphere ?

A. Cellulose

B. Starch

C. Glycogen

D. Chitin

Answer: A



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14. Which of the following amino acids contain sulphur in its side chains

A. Alanine

B. Serine

C. Threonine

D. Methionine

Answer: D



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15. Which of the following is incorrect match between amino acid and its nature?

A. Aspartic acid - Acidic amino acid

B. Arginine - Basic amino acid

C. Tryptophan - Heterocyclic amino acid

D. Isoleucine - Neutral amino acid

Answer: C



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16. How many amino acids (A) and peptide bonds (B) are present in a tetrapeptide?

A. $4 - 4'$

B. $3 - 4'$

C. $4 - 3'$

D. $3 - 3'$

Answer: C



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17. How many among the given amino are essential and must be obtained from food?

Phenylalanine

Valine

Leucine

Glycine

Isoleucine

Threonine

Aspartic acid

A. 4

B. 5

C. 6

D. 7

Answer: B



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18. Which of the following amino acids is precursor of thyroxine, adrenaline and melanin?

- A. Tyrosine
- B. Tryptophan
- C. Histidine
- D. Glycine

Answer: A



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19. In primary structure of a protein, methionine is located at left end of amino acid chain while glutamic acid is located at right end. Which of the following statement is true with respect to above mentioned protein?

A. Methionine is a C-terminal amino acid

B. Glutamic acid is the first amino acid of the chain

C. Glutamic acid is N-terminal amino acid

D. Methionine is the first amino acid of the chain

Answer: D



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20. Which among the following is not an example of secondary structure of protein?

A. Keratin protein of hair

B. Myoglobin protein in muscles

C. Fibroin protein of silk

D. Collagen helix

Answer: B



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21. Which of the following is the correct match between the protein and its corresponding prosthetic group?

A. Caesin - Metal

B. Protamines - pigments

C. Catalase - Haem

D. Mucin - Nucleic acid

Answer: C



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22. Which of the following bond is common to all structures of proteins?

A. Peptide bond

B. Hydrogen bond

C. Disulphide linkage

D. Hydrophobic bond

Answer: A



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23. Which of the following is 18-C unsaturated fatty acid with two double bonds?

A. Oleic acid

B. Linolenic acid

C. Stearic acid

D. Linoleic acid

Answer: D



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24. Which of the following is an incorrect statement regarding Lipids?

- A. Lipids are polymers of glycerol and fatty acids
- B. Fats have higher melting point as compared to oils
- C. Bee wax is an ester of palmitic acid and myricyl alcohol
- D. Glycerol is trihydroxy propane

Answer: A



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25. Which of the following is not a component of Lecithin?

A. Choline

B. Phosphate group

C. Sphingosine

D. Fatty acid

Answer: C



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26. Statement A : Steroids do not contain fatty acids, but are included in lipids.

Statement B : Cholesterol is the most abundant steroid in animal tissues.

A. Statement (A) and (B) are correct

B. Statement (A) is correct and (B) is incorrect

C. Statement (A) is incorrect and (B) is correct

D. Statement (A) and (B) are incorrect

Answer: A



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27. Lanolin is an

- A. Ester of arachidonic acid with glycerol
- B. Ester of palmitic acid with glycerol
- C. Ester of oleic acid with cholesterol
- D. Ester of oleic acid with glycerol

Answer: C



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28. Which of the following is the monomer of Terpenes?

- A. Isoprene
- B. Cholesterol
- C. Myricyl alcohol
- D. Fatty acid

Answer: A



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