

40 QUESTIONS WITH DETAILED EXPLANATION

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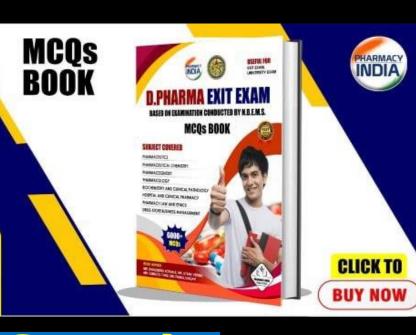
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1. What are the building blocks of triglycerides?

- a) Fatty acids and glycerol
- b) Amino acids
- c) Nucleotides
- d) Monosaccharides





- 1. What are the building blocks of triglycerides?
- a) Fatty acids and glycerol
- b) Amino acids
- c) Nucleotides
- d) Monosaccharides



2. Which type of lipid is responsible for storing energy?

- a) Steroids
- b) Phospholipids
- c) Triglycerides
- d) Waxes



INDIA

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INDIA



3. Which of the following is an example of a saturated fatty acid?

- a) Oleic acid
- b) Linoleic acid
- c) Stearic acid
- d) Arachidonic acid





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4. Which lipid class includes hormones like testosterone and estrogen?

- a) Triglycerides
- b) Steroids
- c) Phospholipids
- d) Glycolipids





- 4. Which lipid class includes hormones like testosterone and estrogen?
- a) Triglycerides
- b) Steroids
- c) Phospholipids
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5. What type of lipid is found in the brain and nervous system?

- a) Waxes
- b) Phospholipids
- c) Glycolipids
- d) All of the above





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- a) Waxes
- b) Phospholipids
- c) Glycolipids
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6. Which of the following fatty acids is essential for human health?

- a) Palmitic acid
- b) Stearic acid
- c) Linoleic acid
- d) Myristic acid





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- a) Palmitic acid
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7. What type of lipid is used for waterproofing in plants and animals?

- a) Phospholipids
- b) Triglycerides
- c) Waxes
- d) Steroids





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- a) Phospholipids
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8. What distinguishes unsaturated fatty acids from saturated fatty acids?

- a) Presence of double bonds
- b) Presence of oxygen
- c) Number of carbon atoms
- d) Molecular weight





- 8. What distinguishes unsaturated fatty acids from saturated fatty acids?
- a) Presence of double bonds
- b) Presence of oxygen
- c) Number of carbon atoms
- d) Molecular weight





9. Which of the following is a characteristic of lipids?

- a) Soluble in water
- b) Insoluble in organic solvents
- c) High energy content
- d) Low melting points





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- b) Insoluble in organic solvents
- c) High energy content
- d) Low melting points



INDIA



10. Which lipid is commonly found in the protective covering of plant leaves?

- a) Phospholipids
- b) Waxes
- c) Triglycerides
- d) Steroids





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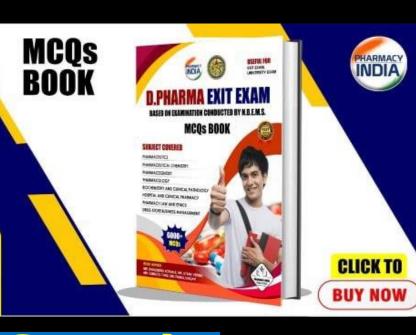
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11. What is a key feature of glycolipids?

- a) They contain a sugar moiety
- b) They are primarily used for energy
- c) They do not have fatty acids
- d) They are only found in animal cells





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- b) They are primarily used for energy
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12. Which of the following statements about lipids is TRUE?

- a) All lipids are soluble in water
- b) Lipids are hydrophilic
- c) Lipids are diverse in structure and function
- d) All lipids are solid at room temperature





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13. What type of lipid is primarily responsible for forming cell membranes?

- a) Saturated fats
- b) Phospholipids
- c) Steroids
- d) Waxes





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14. What type of lipid serves as a precursor to bioactive lipids like eicosanoids?

- a) Triglycerides
- b) Phospholipids
- c) Sphingolipids
- d) Fatty acids





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15. What is a primary function of lipoproteins in the body?

- A) Energy storage
- B) Transport of lipids in the bloodstream
- C) Cell membrane formation
- D) Hormone synthesis





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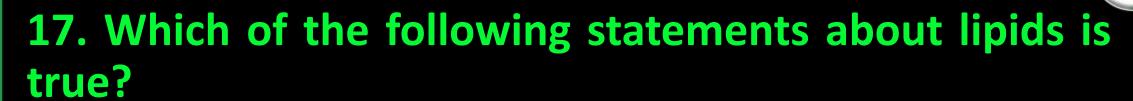




17. Which of the following statements about lipids is true?

- A) All lipids are soluble in water.
- B) Lipids can store more energy than carbohydrates.
- C) Lipids have no role in cellular structure.
- D) All lipids are harmful to health.





- A) All lipids are soluble in water.
- B) Lipids can store more energy than carbohydrates
- C) Lipids have no role in cellular structure.
- D) All lipids are harmful to health.



18. Which lipid serves as a precursor for eicosanoids, important signaling molecules?

- A) Triglycerides
- B) Cholesterol
- C) Fatty acids
- D) Phospholipids



INDIA

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- A) Triglycerides
- B) Cholesterol
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- D) Phospholipids



INDIA



19. What is one function of phospholipids besides forming cell membranes?

- A) Energy storage
- B) Cellular signaling
- C) Genetic material
- D) None of the above





19. What is one function of phospholipids besides forming cell membranes?

- A) Energy storage
- B) Cellular signaling
- C) Genetic material
- D) None of the above





20. Which lipid is important for maintaining the fluidity of cell membranes?

- A) Phospholipids
- B) Cholesterol
- C) Triglycerides
- D) Fatty acids





20. Which lipid is important for maintaining the fluidity of cell membranes?

- A) Phospholipids
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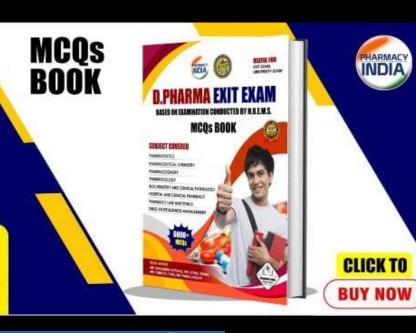
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21. How do lipids contribute to hormone production?

- A) They are the primary components of DNA.
- B) They serve as substrates for hormone synthesis.
- C) They are involved in enzymatic reactions
- D) They do not contribute to hormone production.





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- A) They are the primary components of DNA.
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22. What is a significant role of omega-3 fatty acids?

- A) Increase cholesterol levels
- B) Promote inflammation
- C) Support cardiovascular health
- D) Decrease energy levels



INDIA

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- A) Increase cholesterol levels
- B) Promote inflammation
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INDIA



23. Lipids can be classified into which of the following categories?

- A) Saturated and unsaturated only
- B) Simple and complex only
- C) Glycerol and non-glycerol based
- D) All of the above





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- A) Saturated and unsaturated only
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24. Which lipid is a major component of myelin sheaths in nerve cells?

- A) Triglycerides
- B) Glycolipids
- C) Phospholipids
- D) Sterols





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- A) Triglycerides
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25. What role do lipids play in the absorption of fatsoluble vitamins?

- A) They catalyze the absorption process.
- B) They form micelles to enhance absorption.
- C) They inhibit vitamin absorption.
- D) They have no role.





25. What role do lipids play in the absorption of fatsoluble vitamins?

- A) They catalyze the absorption process.
- B) They form micelles to enhance absorption.
- C) They inhibit vitamin absorption.
- D) They have no role.





26. Which test uses ethanol to detect the presence of lipids?

- A) Sudan III test
- B) Grease Spot Test
- C) Emulsion Test
- D) Molisch's Test





26. Which test uses ethanol to detect the presence of lipids?

- A) Sudan III test
- B) Grease Spot Test
- C) Emulsion Test
- D) Molisch's Test





27. Which lipid class is detected by the iodine test?

- A) Saturated fats
- B) Unsaturated fats
- C) Phospholipids
- D) Cholesterol





27. Which lipid class is detected by the iodine test?

- A) Saturated fats
- **B)** Unsaturated fats
- C) Phospholipids
- D) Cholesterol





28. What does the presence of a yellow color in the lodine test signify?

- A) Saturated fatty acids
- B) Unsaturated fatty acids
- C) No lipids present
- D) Presence of carbohydrates





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- A) Saturated fatty acids
- B) Unsaturated fatty acids
- C) No lipids present
- D) Presence of carbohydrates





29. Which of the following is not a qualitative test for lipids?

- A) Benedict's Test
- B) Grease Spot Test
- C) Sudan IV Test
- D) Emulsion Test





29. Which of the following is not a qualitative test for lipids?

- A) Benedict's Test
- B) Grease Spot Test
- C) Sudan IV Test
- D) Emulsion Test





30. The Emulsion Test can be used to test for which of the following?

- A) Proteins
- B) Carbohydrates
- C) Lipids
- D) Nucleic acids





30. The Emulsion Test can be used to test for which of the following?

- A) Proteins
- B) Carbohydrates
- C) Lipids
- D) Nucleic acids











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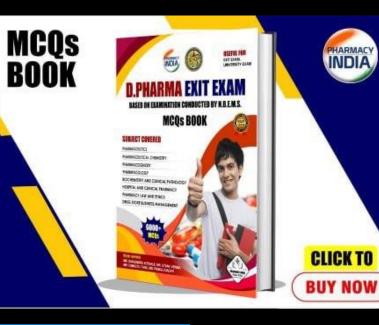
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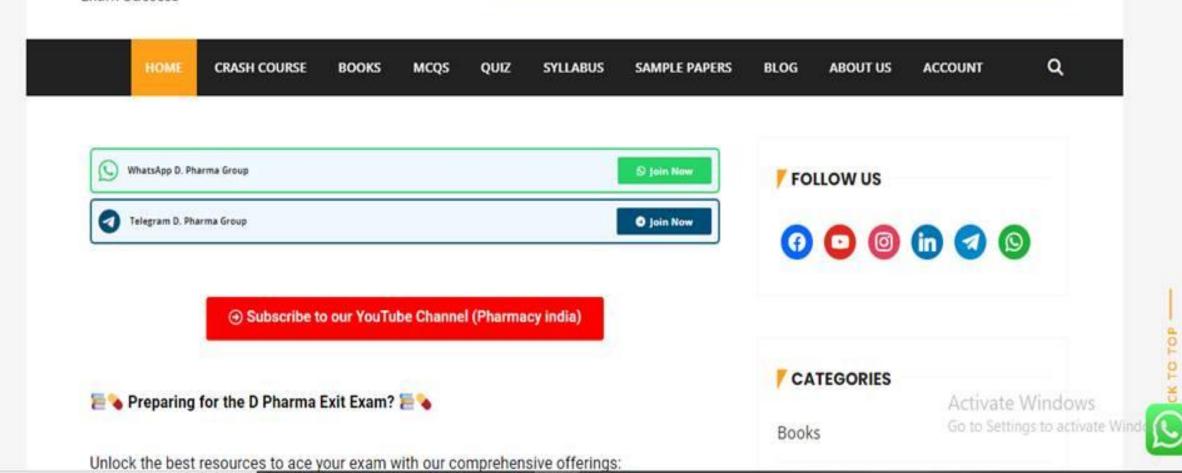
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