

**BHARATI VIDYAPEETH DEEMED UNIVERSITY COLLEGE OF NURSING NAVI
MUMBAI.**

BIOCHEMISTRY QUESTION PAPER.

SHORT NOTES-

1. Write the irreversible steps of glycolysis.
2. What are homopolysaccharides and heteropolysaccharides .mention the examples of each.
3. Draw Cory's cycle.
4. What are the key features of active of active transport
5. Name the aromatic amino acids.
6. How bile salts do helps in absorption of dietary lipids.
7. Classification of carbohydrates.
8. Write two function of DNA.
9. Blood buffers.
10. Ketosis
11. Types and functions of DNA.
12. Primary structure of proteins.
13. Lysosomes
14. Denaturation.
15. Strong bonds and weak bonds in proteins.
16. Give three irreversible steps of glycolysis.
17. Draw label diagram of plasma membrane.
18. Define osmosis, diffusion, passive transport, active transport.
19. Nutritional classification of proteins.
20. Peptide bond formation.

LONG QUESTION ANSWERS-

- 1. Classify proteins with suitable examples.**
- 2. Describe the tricarboxylic acid cycle (TCA) with energetic.**
- 3. Write any four factors affecting enzyme activity.**
- 4. Clinical importance of isoenzymes.**
- 5. Enlist the classification of enzymes'.**
- 6. Describe the composition, structure, and functions of plasma membrane.**
- 7. What are amino acids and describe their classification.**
- 8. Structural organization of proteins**
- 9. Classification of proteins with examples.**
- 10. Classification of enzymes. Factor affecting enzyme activity.**
- 11. Describe glycolysis in details.**
- 12. Describe Krebs cycle in details.**
- 13. Describe tricarboxylic acid cycle mention the energetic and regulation of the cycle.**
- 14. Classify lipids and give examples of each. Add a note on phospholipids.**
- 15. Classify amino acids giving examples writ the properties of amino acids.**
- 16. What are phospholipids.give their functions**
- 17. Describe urea cycle.add a note on clinical significance of blood urea estimation.**
- 18. Discuss in details blood glucose regulations.**
- 19. Write the irreversible steps of glycolysis.**
- 20. Factors affecting enzyme activity.**

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Nutrition question paper

SHORT NOTES-

1. Define dietary fibers.mention any two functions of dietary fibers.
2. Define essentials fatty acids (EFA).give two e.g. mentions any two functions of EFA.
- 3 .Enlist enzymes necessary for carbohydrates digestion with their site of action.
4. Write about the functions of lipids in the body (4)
5. Name four b.complex vitamins with their abbreviations.
6. List four functions of calcium.
7. State four plant sources of fats.
8. State the RDA of iron for a pregnant woman.
9. State four food sources of vitamin A.
10. State four food sources of vitamin C.
11. Write the caloric value of 1gm of protein and one gm. of fat.
- 13] Role of nutrition in maintaining health
- 14] Manifestations of iodine deficiency
- 15] Provitamines.
- 16] Iron deficiency manifestations.
- 17] Mention any 4 functions of calcium in the human body.
- 18] Enlist the factors regulating blood calcium and phosphorus level.
- 19] Iron deficiency disorders.
- 20] Iodine deficiency disorders.
- 21] List down the factors affecting food and nutrition.
- 22] Enlist the functions of carbohydrates.
- 23] Discuss the digestion of proteins.
- 24] Explain the nutritional problems in India.
- 25] Define calorie. Describe the major nutrients.
- 26] Give any 6 functions of vitamin c.
- 27] Define BMR .enumerate factors affecting BMR.
- 28] Give the water balance table in the human body.
- 29] Beriberi.
- 30] Draw diagram explaining digestion absorption of iron

LONG QUESTIONS:

- 1] Clarify minerals. Give an e .g under each classification and state its functions.**
- 2] What are the symptoms of protein energy malnutrition [PEM] what dietary treatment is suggested for a child with PEM?**
- 3] answer the following regarding vit A**
 - A] Sources**
 - B] RDA**
 - C] Functions.**
 - D] Diseases associated with deficiency.**
- 4] Answer the following regarding.**
 - A] Sources**
 - B] RDA**
 - C] Function**
- 5] Define B.M.R and factors affecting B.M.R**
- 6] Define balanced diet and explain the relation between health and nutrition.**
- 7] Classification ofcarbohydrates.**
- 8] Write in details under following heads and regarding proteins [or] carbohydrates.**
 - A] Dietary sources.**
 - B] Important functions.**
 - c] R.D.A**
- 9] How are protein digested and absorbed in our body.**
- 10] How are fats digested and absorbed in our body.**
- 11] Explain in details the different methods of cooking.**
- 12] What are the direct methods of nutritional assessment? Describe each in brief.**

13] Discuss PEM under the following heading..

A] Reasons for the occurrence

B] Symptoms.

14] Nurses role in nutritional management of clients.

15] Classify vitamins giving examples of food sources in each classification.

16] Explain acidosis and alkalosis.

17] Explain digestion, absorption and metabolism of proteins.

18] discuss the functions, sources, and RDA and deficiency manifestations of vit A.

19] discuss the functions, sources, and RDA and deficiency manifestations of vit D.

20] Define menu planning and what the different methods of cooking are are.

Nutrition :

- 12] Principles of cooking to be followed to retain nutrition .
- 13] Role of nutrition in maintaining health
- 14] Manifestations of iodine deficiency
- 15] Provitamines .
- 16] Iron deficiency manifestations.
- 17] Mention any 4 functions of calcium in the human body.
- 18] Enlist the factors regulating blood calcium and phosphorus level.
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LONG QUESTIONS :

