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TELANGANA STATE, WARANGAL – 506 002

B.Sc. (NURSING), II SEMESTER DEGREE EXAMINATIONS: DECEMBER 2025

APPLIED BIOCHEMISTRY AND APPLIED NUTRITION & DIETETICS

Time: 3 Hours

Max Marks: 75

Note: Answer part A & B questions in two separate answer books

Question in part “A” should not be answered in part “B” and vice versa. Otherwise they will not be valued

PART-A

(Applied Biochemistry) 25 Marks

Choose the correct answer for the following MCQs:

4 X 1 = 4

1. The synthesis of urea occurs in **B**
 - a) Kidney
 - b) Liver
 - c) Muscle
 - d) Brain
2. Galactosemia is mostly due to deficiency of the enzyme **A**
 - a) Galactose-1-phosphate uridyl transferase
 - b) Fructose-1-phosphate aldolase
 - c) Lactase
 - d) Trehalase
3. Rich source of Triglyceride in blood is **C**
 - a) HDL
 - b) LDL
 - c) VLDL
 - d) All of the above
4. The earliest immunoglobulin to be synthesized by the fetus is... **C**
 - a) IgG
 - b) IgA
 - c) IgM
 - d) IgE

Write a short note on any THREE of the following:

3 X 5 = 15

5. Classification of fatty acids.
6. Digestion and absorption of proteins.
7. Regulation of Blood PH.
8. Enzymes of diagnostic importance in liver disease.

Write briefly on the following:

3 X 2 = 6

9. ABG.
10. TSH.
11. Functions of Immunoglobulins.

PART-B

(Nutrition and Dietetics) 50 Marks

Choose the correct answer for the following MCQs:

8 X 1 = 8

12. Hyperkalaemia is known as **A**
 - a) Elevated level of Potassium
 - b) Lower level of Potassium
 - c) Elevated level of Calcium
 - d) Lower level of Calcium
13. 1 gram of fats gives **B**
 - a) 7 Kcal
 - b) 9 Kcal
 - c) 4 Kcal
 - d) 8 Kcal

14. The best advice for a person with Osteoarthritis might to be **D**
 a) Take adequate rest b) Take fish oil supplements
 c) Take vitamin E supplements d) Lose weight, if overweight.
15. To prevent neural tube defects, grain products are now fortified with: **B**
 a) Iron b) Folate
 c) Protein d) Vitamin C
16. Which of the following Amino Acid is limiting in Soya bean **A**
 a) Methionine b) Cysteine
 c) Tryptophan d) All of the above
17. Leucine promotes the production of..... **C**
 a) NAD b) NADH
 c) Growth hormone d) NADP
18. Prevention of food adulteration act was initiated in the year..... **C**
 a) 1960 b) 1958
 c) 1954 d) 1952
19. The RDA of vitamin A in pregnant females is: **A**
 a) 750-1000 µg/day b) 500-750 µg/day
 c) 1000 -1200 µg/day d) 750-1200 µg/day

Write an essay on any ONE of the following:

1 X 10 = 10

20. Balanced Diet is important to live healthy life. How far do you agree with this statement.
21. Classification of Vitamins. write its functions, dietary sources and daily requirements of Vitamin A.

Write a short note on any FOUR of the following:

4 X 5 = 20

22. Proteins and its functions.
23. Describe the points to be considered in planning diet for pre school children.
24. Classification of Fats.
25. Food adulteration.
26. Explain in detail about Nutritional Assessment.
27. Clinical features of Kwashiorkor.

Write briefly on the following:

6 X 2 = 12

28. Give examples of a Glycolipid and a Phospholipid.
29. What is Mottling.
30. Different cooking methods.
31. Processed Supplementary Foods.
32. Define Crash Dieting.
33. Define Anthropometry.
