

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

TELANGANA STATE, WARANGAL – 506 002

B.Sc. (NURSING) SECOND SEMESTER DEGREE EXAMINATIONS: DECEMEBER, 2024

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 carbohydrate present in the blood is
 - a) Sucrose
 - b) Glucose
 - c) Arabinose
 - d) Maltose
2. The following are essential fatty acids in man except
 - a) Oleic acid
 - b) Linoleic acid
 - c) Linolenic acid
 - d) Arachidonic acid
3. Glucose 6 phosphate deficiency is seen in
 - a) Pomper's disease
 - b) Down syndrome
 - c) Von glerke's disease
 - d) Mc Ardle's syndrome
4. Who detected the double helical structure of DNA
 - a) Watson & Francis crick
 - b) Frederick sanger
 - c) Anton van Leeuwenhoek
 - d) Mendel

Write short note on any THREE of the following:

3 X 5 = 15

5. Regulation of Blood Glucose
6. Classification of Lipids
7. Acid base disorders.
8. Krebs cycle.

Write briefly on the following:

3 X 2 = 6

9. Van den berg test
10. Deamination
11. Atherosclerosis

Part-B (Nutrition and Dietetics) = 50 Marks

Choose the correct answer for the following MCQs:

8 X 1 = 8

12. One of the following is not a reducing sugar
 - a) Isomaltose
 - b) Galactose
 - c) Trehalose
 - d) Fructose

- 13.** Phenylalanine is the precursor of
- Histamine
 - Dopamine
 - Tyrosine
 - Thyroxin
- 14.** Which vitamin is only synthesized by: animal
- Riboflavin
 - Ascorbic acid.
 - Biotin
 - Cyanocobalamin
- 15.** Enzymes which are produced in inactive form within the living cells are called
- Co-enzyme
 - Apoenzyme
 - Proenzymes
 - Isozymes
- 16.** One of the following amino acids is used as an antibiotic
- Thyroxine
 - Ornithine
 - Homoserine
 - Azaserine
- 17.** Lathyrism is due to intake of
- Green Gram
 - Bengal gram dhal
 - Khesari dal
 - Red gram dal
- 18.** Storage of Iron is
- Ferritin
 - Transferrin
 - Apo transferrin
 - Iodine
- 19.** The formula for body mass index is
- Height divided by weight
 - Weight divided by height squared
 - Height divided by weight squared
 - Weight divided by height

Write an essay on any ONE of the following:

1 X 10 = 10

- Explain in detail about protein — energy malnutrition.
- Classify the vitamins explain the dietary sources, daily requirements, absorption, functions of vitamin D.

Write short note on any FOUR of the following:

4 X 5 = 20

- Write about glucose tolerance test.
- Explain the role of nurse in balanced diet.
- ICDS programme.
- Explain the dietary allowances of fats.
- Differences between micro and macro nutrients.
- Sources and deficiencies of vitamin C.

Write briefly on the following:

6 X 2 = 12

- Mention uses of Iodized salt.
- Define dehydration.
- Properties of fats
- Nutrition survey
- Food poisoning
- Weight for height.
