BRAINWARE UNIVERSITY

Term End Examination 2023-2024 (Oct, 2024)
Programme – B.Sc. Nursing-2023
Course Name – Applied Biochemistry and Applied Nutrition & Dietetics
Course Code - BIOC 135 & NUTR 140
(Semester II)

Full Marks : 75   **Time : 3:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

Section : A   **Marks : 25**

(Applied Biochemistry)

Group-A

(Multiple Choice Type Question)   4 x 1=4

1. Choose the correct alternative from the following :

(i) Identify Which of the Following is not a Polymer of Glucose:

   a) Glycogen   b) Cellulose

   c) Amylase   d) Insulin

(ii) Gluconeogenesis Occurs in the Liver and Which Organ:

   a) Kidney   b) Muscle

   c) Heart   d) Fat

(iii) Name the energy source of the brain during starvation:

   a) Fat   b) Ketone bodies

   c) Protein   d) Lipids

(iv) Name of the diseases is caused by protein deficiency:

   a) Anaemia   b) Kwashiorkor

   c) Hypothyroidism   d) All of the above

Group-B
(Short Answer Type Questions)

3 x 5=15

(5)

2. Write a Short note Glucose tolerance test

(5)

3. Write a short note on LDL

(5)

4. Discuss about IgM

OR

(5)

Write a short note on Elisa

Group-C
(Very Short Answer Type Questions)

3 x 2=6

(2)

5. Write very short notes on T3 and T4 Test

(2)

6. Write very short notes on BUN

OR

(2)

Write very short notes on creatinine

Section : B

Marks : 50

(Applied Nutrition and Dietetics)

Group-A
(Multiple Choice Type Question)

8 x 1=8

7.

(i) Select which food is a good sources of soluble fiber -

a) Oatmeal
b) Fruits
c) Barely
d) Vegetables

(ii) Identify which food is rich in essential amino acids -

a) Legumens
b) Nuts and seeds
c) Whole grains
d) Lean meats

(iii) Select which condition is caused by vitamin A deficiency-

a) Scurvey
b) Rickets
c) Bitot's spot
d) Beriberi

(iv) Select the mineral which is essential for immune system-

a) Selenium
b) Copper
c) Zinc
d) Iron

(v) Mention the mineral which helps to transmit nerve signals and control muscle contraction -

a) Potassium
b) Iron
c) Iodine
d) Magnesium

(vi) Mention the primary goal of weaning -

a) Reducing dependence on breastfeeding   b) Transitioning to cow's milk

c) Increasing milk production   d) Introducing solid foods

(vii) Identify which type of food adulteration involves adding harmful substances-

a) Intentional adulteration   b) Economic adulteration

c) Unintentional adulteration   d) Physical adulteration

(viii) Identify which laboratory test is used to assess iron status -

a) Serum ferritin   b) Hematocrit

c) Hemoglobin   d) All of these

Group-B
(Short Answer Type Questions)   4 x 5=20

8. Discuss the difference between macro and micro nutrients,   (5)

9. Discuss Methods of Nutritional Assessment.   (5)

10. Write a short note on SAM   (5)

11. Discuss in detail about childhood obesity.   (5)

OR

Explain Diet as a Therapeutic Agent   (5)

Group-C
(Very Short Answer Type Questions)   6 x 2=12

12. Classification of Food   (2)

13. Define RDA(Recommended dietary allowance)   (2)

14. Define colostrum   (2)

15. Define Nutrition survey   (2)

16. State food poisoning .   (2)

17. Define Beri Beri   (2)

OR

Define Dehydration   (2)

Group-D
(Long Answer Type Questions)   1 x 10=10

18. Write down the absorption and excretion site of calcium. Explain the functions of calcium   (10)
Describe the deficiencies of calcium. (2+5+3)

OR

Write down the food sources of iron. (10)

Describe about functions and deficiencies of iron.

Prepare a diet plan for anaemic patient. (2+5+3)

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