BRAINWARE UNIVERSITY

Term End Semester Examinations, July- 2023

Programme – Bachelor of Science in Nursing

Course Name – Applied Biochemistry and Applied Nutrition & Dietetics

Course Code – BIOC 135 & NUTR 140

(Semester – II)

Time allotted: 3 hrs.   Full Marks: 75

[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

(Applied Biochemistry)   Marks - 25

Group – A (Multiple Choice Question)   4 x 1 = 4

1. Select the correct answer of the following :-

i) Gluconeogenesis Occurs in the Liver and Which Organ:

   a Kidney   b Muscle

   c Heart   d Fat

ii) Choose the risk factors for type 2 diabetes mellitus include:

   a Family history   b Being overweight

   c High intake of dietary fat   d All of the options listed are correct

iii) Name of the **diseases is caused by protein deficiency:**

   a Anaemia   b Kwashiorkor

   c Hypothyroidism   d All of the above

iv) Select the correct answer of normal pH of human blood is:

   a 7-7.1   b 7.25-7.3

   c 7.35-7.45   d 7.5-7.55

Group – B (Short answer type question) 3 x 5 = 15

(*Answer Any Three Questions*)

2. Describe diabetes briefly [5]

3. List the signs and symptoms of atherosclerosis [5]

4. Write a short note on Myocardial Infraction [5]

5. Write a short note on Jaundice [5]

Group – C (Very short answer type question) 3 x 2 = 6

(*Answer Any Three Questions*)

6. Classify carbohydrates. [2]

7. State the reason why LDL is known as "Bad Cholesterol." [2]

8. Prepare a very short notes on Respiratory acidosis [2]

9. Write very short notes on BUN. [2]

Section – B

(Applied Nutrition & Dietetics) Marks - 50
Group – A (Multiple Choice Question) 8 x 1 = 8
10. Select the correct answer of the following :-

i) Signify the obesity is the result of :

    a   Overnutrition   b . Undernutrition

    c   Optimum nutrition   d None of the above

ii) Select the Vitamin is known as 'Anti- stress' Vitamin:

    a   Vitamin E   b Vitamin B1

    c   Vitamin B5   d Vitamin c

iii) Mention the following is required as a component of blood hemoglobin:

    a   Iron   b Copper

    c   Calcium   d Magnesium

iv) Mention the appropriate time to initiate breast feeding after the birth of the child:

    a   a. Within the first hour of birth   b b. Within 6 hours of birth

    c   Within 12 hours of birth   d Within 24 hours of birth

Group – C (Short answer type question)   4 x 5 = 20

(Answer Any Four Questions)

13. Describe in details role of nutrition in maintaining health.   [5]

14. Define Balanced Diet. Mention Factors you would consider while planning a meal.   [2+3]

15. Discuss the various methods of cooking in details.   [5]

16. Discuss Mid-Day meal programme.   [5]

17. Describe four steps to food safety.   [5]

Group – D (Very short answer type question)   6 x 2 = 12

(Answer Any Six Questions)

18. Enumerate food sources of fats   [2]

19. Define RDA   [2]

20. Define Beri Beri   [2]

21. Define Balanced Diet   [2]

22. Define Dehydration   [2]

23. Interpret PEM   [2]

24. Illustrate foodborne illness   [2]