NEW

Part–III   3-Tier

2019

NUTRITION

(Honours)

PAPER—VI

Full Marks : 90

Time : 4 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

UNIT—11

Group—A

1. Answer any *five* questions.   2×5

(a) What is glucose memory test ?

(b) Write the full form of GDM and MODY.

(c) State the dietary significance of second class protein.

(d) Differentiate between α and β thalassemia.

(e) What is inborn error of metabolism ?

(f) What are the common symptoms of renal failure ?

(g) Write any two major causes of anaemia.

(h) Write the fullform of IHD and CHD.

Group—B

Answer any *four* questions : $\quad\quad\quad 4 \times 5$

2. State the nature of carbohydrate and fat which are included in therapeutic diet of diabetic patient. Justify the adoption of high frequency meal in diabetic patient.

$(2+1)+2$

3. Write the causes of phenyl ketonuria. State the guide lines for dietary management of phenyl ketonuria affected child. $\quad\quad 2+3$

4. Write the causes of glomerulo nephritis. Describe in brief the guideline for the therapeutic diet formulation of glomerulo nephritic patient. $\quad\quad 2+3$

5. What are the symptoms of food allergy ? Write the dietary management of food induced allergic reaction.   2+3

6. Write the causes of sickle cell anaemia. State the dietary precautions adopted in thalassemic patient.   2+3

7. Write the difference between primary and secondary hypertension. State the dietary management of hypertensive patient.   2+3

8. Classify lipoproteins with example. Why HDI is considered as good lipo protein ?   3+2

Group—C

Answer any *one* question :   1×15

9. (a) Write the different types of insulin used for treatment of diabetics.

   (b) State the principle of time of meal supply of diabetic patient under treatment of insulin.

   (c) Write the major sensors of lipid profile and their normal levels in plasma.

   (d) Write the major causes of IDDM.   3+4+(2+2)+4

(Turn Over)

10. (a) What is nephrotic syndrome and write its causes.

(b) Write the causes of uremia.

(c) Describe the precautions considered for therapeutic diet formulation of renal patient.   4+3+8

UNIT—12

Group—D

11. Answer any *five* questions.   2×5

(a) Define data.

(b) What is sample ?

(c) What is cohort study ?

(d) Define pie-diagram.

(e) Write the core concept of 'Null hypothesis'.

(f) What is Kurtosis ?

(g) What do you mean by computer programme ?

(h) Write the name of any two common antivirus software.

(Continued)

Group—E

Answer any *four* questions. 4×5

12. (a) State the objectives of action research.

(b) Write the major characteristics features of good sampling. 2+3

13. (a) Describe briefly the data connection method.

(b) Write the advantages of grouped data in statistical analysis. 2+3

14. (a) Write the advantages and limitation of data presentation through 'Bar diagram'.

(b) What is skewness ? $(1\frac{1}{2}+1\frac{1}{2})+2$

15. (a) Write the meaning "Test of significance".

(b) What are the conditions for the use of 'one tail and two-tail' -*t*-test ? 2+3

16. (a) Write the major domains of research in general.

(b) State the applied value of experimental research.

2+3

17. (a) Describe in short about multi-tasking operating system.

(b) Write in general about the application of computer in the field of nutrition. 2+3

18. (a) What are basic difference between hardware and software ?

(b) Write the movable and immovable storage devices in computer.   2½+2½

Group—F

Answer any *one* question.   1×15

19. (a) Compute the median value of blood sugar from the following data given in table.

Class interval (Blood sugar mg/dl)	Frequencies
80-85	2
86-90	3
91-95	2
96-100	8
101-105	7
106-110	4
111-115	4

(b) Find out the whether there is any significant difference or not between analysis of Laboratory A and B of following Baby food about their protein levels.

Batch No. of Baby food Sample	Protein level (g%)	
	Laboratory A	Laboratory B
1	18	16
2	14	16
3	16	17
4	18	22
5	22	19
6	20	23
7	17	18
8	16	21
9	19	22
10	23	20

(Turn Over)

Two Tail (p values)	One Tail (p values)
df 9(0.05) = 2.262	df 9(0.05) = 1.833
(0.01) = 3.250	df 9(0.01) = 2.821

7+8

20. (a) State in brief about ALU.

(b) State the difference between RAM and ROM

(c) Write in brief about method of data processing.

(d) What is computer virus and site one example.

(e) Write a short note of SPSS package.

4+4+3+2+2

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