UG/III/NUT/H/VI/18(New)

2018

NUTRITION

[Honours]

PAPER – VI

Full Marks : 90

Time : 4 hours

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

[NEW SYLLABUS]

UNIT–II

GROUP–A

1. Answer any *five* questions : 2 × 5

   (*a*) Write the major cause of NIDDM.

   (*b*) What do you mean by Artificial Sweetners ?

(*c*) Write the safe levels of blood cholesterol and LDL-C.

(*d*) Write the location of the gene which is defected in classical phenylketonuria.

(*e*) Write the principle of diabetic diet.

(*f*) Write the major cause of glomerulo nephritis.

(*g*) Write the linkage between anaemia and chronic gastric ulcer.

(*h*) What is the major cause of sickle cell anaemia ?

GROUP–B

Answer any **four** questions : 5 × 4

2. What is glucose memory test ? Why plasma C-peptide is considered as good sensor for the assessment of β-cell status of an individual ? 2 + 3

3. State the role of foam cell for atheroma formation. write the names of any four cholesterol enriched food items which are excluded in therapeutic diet of hyperlipidemia patient. 3 + 2

4. Why wheat made bread is a good food item in the menu of diabetic therapeutic diet instead of rice ? When acid ash diet is prescribed for renal patient and why ? 3 + 2

5. Write the mode of action of any one food allergen for the onset of allergic reaction. 5

6. State the basic differences between α and β thalassemia. State the importance of first class protein in the diet for therapeutic management of nutritionaly anaemic patients. 2 + 3

7. Write the causes of lactose intolerance. Write the guideline for the formulation of therapeutic diet chart of a patient with lactose intolerance. 2 + 3

8. State the difference between acute and chronic nephritis. Write the major causes of nephrolithiasis. 3 + 2

GROUP–C

Answer any **one** question : 15×1

9. (*a*) Write the major types of CVD.

(*b*) State the inclusion and exclusion criteria of different dietary items in the therapeutic diet for the management of CVD in general.

(*c*) Explain the importance of MUFA and PUFA for the dietary management of cardiac diseases.

(*d*) Write the risk factors of atherosclerosis. 3 + 5 + 5 + 2

10. (*a*) Describe the importance of sodium-potassium exchange list in therapeutic diet preparation of renal patients.

(*b*) Write the etiology of renal diseases in general.

(*c*) Justify the inclusion of protein in the diet of renal failure patient from the viewpoint of quality.

(*d*) State the limitation of dietary ingredients in the diet of renal stone patient at postsurgical state. 4 + 4 + 3 + 4

UNIT–12

GROUP–D

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

(*a*) What is action research ?

(*b*) What do you mean by small sample and large sample size ?

(*c*) What do you mean by grouped data ?

(*d*) What is two tail '*t*' test ?

(*e*) Define hypothesis.

(*f*) Write any two storage devices used in computer.

(*g*) Write the names of any two antivirus software used in computer.

(*h*) State multivariate frequency distribution.

GROUP–E

Answer any **four** questions : 5 × 4

12. (*a*) Write the impact of historical research in the field of science.

(*b*) Write the criteria of good research. 3 + 2

13. (*a*) State the criteria of valid data collection.

(*b*) What is random sampling and what are its importances ? 2 + 3

14. (*a*) What do you mean by pair observation study ?

(*b*) What is the content of null hypothesis ?

(*c*) Define Kurtosis. 2 + 2 + 1

15. (*a*) Define dependent and independent variables with one example in each case.

(*b*) What do you mean by parametric and non-parametric variables with examples. 2 + 3

16. (*a*) Write in brief about the methods of data processing.

(*b*) State the application of data processing. 3 + 2

17. (*a*) Write the principle of programming in computer.

(*b*) State in brief about SPSS package. 3 + 2

18. (*a*) What is mode ?

(*b*) How will you compute mode from mean and median ?

(*c*) When will you median prefer as central tendency over mean and mode ? $1\frac{1}{2}+1\frac{1}{2}+2$

GROUP—F

Answer any **one** question : 15×1

19. (*a*) Find out whether the heart rate before exercise is significantly differ from that of after exercise as stated below :

Sl. No.	1	2	3	4	5	6	7	8	9	10
H.R/min before exercise	82	72	76	80	68	75	81	64	70	71
H.R/min after exercise	110	90	83	95	74	88	89	78	82	85

Two tail	One tail
df 9, (0·05) = 2.262	df 9, (0·05) = 1·833
(0·01) = 3·250	(0·01) = 2·821

(*b*) How will you compute the mean of the following data ?

Class interval :	51-53	54-56	57-59	60-62	63-65	66-68	69-71
Frequencies :	4	7	12	25	13	6	3

8 + 7

20. (*a*) Write in brief the steps adopted for designing of an experiment.

(*b*) What do you mean by multi tasking operating system ?

(*c*) Write the functions of RAM and ROM.

(*d*) Describe the properties of a normal distribution curve. 5 + 4 + 3 + 3
