

(3)

OR

[Biostatistics and Bioinformatics]

Group - A

A. Answer any *five* questions : 2×5=10

1. What is the use of chi-square test?
2. Define the term inter-quartile range.
3. What is coefficient of variance?
4. What do you mean by non-parametric test?
5. Write any two merits of median.
6. Differentiate between population and sample.
7. Write down the uses Protein Data Bank.
8. What is Phylograms?

Group - B

B. Answer any *four* questions : 5×4=20

2.3459
9. Compute the SD of the following memory test scores of 20 high school students : 9, 10, 12, 15, 9, 11, 16, 10, 13, 9, 12, 10, 14, 13, 15, 16, 13, 10, 12, 14. ~~_____~~

10. What is genomics? Briefly discuss about the nucleotide and genome sequence databases. 2+3

11. Write a short note on measures of central tendency.

P.T.O.

12. What is the significance of phylogenetic tree analysis?
13. What is human genome project? Briefly discuss about the role of bioinformatics tools in completion of the project. (2+3)
14. What is 'FASTA' sequence? What are applications of NCBI BLAST? 2+3

Group - C

C. Answer any *one* question : 10×1=10

15. Attack rates among the vaccinated and unvaccinated against the COVID-19 are given in the following table below. Prove the protectiveness of the vaccine by the appropriate test.

Group	Attacked	Not Attacked	Total
Vaccinated	10	90	100
Un Vaccinated	26	74	100
Total	36	164	200

Critical χ^2 values (df - 1) for df-1 $\chi^2_{0.05} = 3.84$,
 $\chi^2_{0.01} = 6.65$, $\chi^2_{0.001} = 10.83$ 10

16. Differentiate between primary and secondary data. Explain with a suitable examples of each data. 4+6

2022

3rd Semester Examination

NUTRITION (Honours)

Paper : C 7-T

[Basic Dietetics]

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

A. Answer any *five* questions :

2×5=10

1. What is refeeding syndrome?
2. List foods which can be included in soft fibre restricted diet.
3. What do you mean by hypertrophic and hyper plastic obesity?
4. What is ORS?
5. What is pretest counselling?
6. List foods to be avoided in low residue diet.

P.T.O.

(2)

7. Why AIDS is called an immuno deficiency disease?
8. What is oncogene?

Group - B

B. Answer any *four* questions : 5×4=20

9. What is the role of a register dietation in a hospital?
10. List the food to be included in a soft diet.
11. List the changes in diet which are helpful for the management of diabetic patient.
12. Write short note on 'Hepatitis'.
13. Write the merits and demerits of parenteral feeding for prolonged period.
14. Write short note on 'Galactocemia'.

Group - C

C. Answer any *one* question : 10×1=10

15. Discuss the nutrition needs of an undernutrition patient subject to surgery within short period. What is a PKU? How can it be treated? 5+1+4
 16. What is allergy? How is it treated? Discuss the causes of kidney disease. Briefly describe the role of dietary fibre in the management of constipation. 2+3+2+3
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2022

3rd Semester Examination

NUTRITION (Honours)

Paper : C 6-T

[Community Nutrition and
Nutritional Epidemiology]

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

A. Answer any *five* questions : 2×5=10

1. What is vital statistics?
2. Define demography.
3. What is family food security?
4. Write the full form of UNICEF.
5. Write any two limitations of biochemical tests in reference to nutritional status assessment.
6. Define pandemic and zoonosis.

7. What is attack rate?

8. Write any two clinical signs of vitamin-D deficiency.

Group - B

B. Answer any *four* questions : 5×4=20

9. Write the relation between prevalence and incidence rate. Differentiate between rate and ratio. 3+2

10. Briefly discuss about different types of diet survey methods with its advantages and disadvantages.

11. Discuss the 'descriptive methods' of epidemiology in reference to time variation only.

12. Mention the identifying characteristics of PEM and iodine deficiency disorders.

13. Discuss about 'Epidemiological Traid' with a suitable diagram.

14. How do you calculate 'z-score'? Define validity and reliability. 2+3

Group - C

C. Answer any *one* question : 10×1=10

15. Malnutrition and infection form a vicious cycle— explain. Briefly describe the child immunization schedule. 5+5

16. Define relative risk. Differentiate between kwashiorkor and marasmus. Write in brief on the services provided by ICDS. 2+4+4

2022

3rd Semester Examination

NUTRITION (Honours)

Paper : C 5-T

[Family Meal Management and Meal Planning]

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

A. Answer any *five* questions : 2×5=10

1. What is food faddism?
2. Differentiate between normal diet and therapeutic diet.
3. What is the impact of caffeine intake in pregnancy and lactation?
4. What types of food can be provided to an athlete for instant energy?
5. What kind of milk can be provided to toddlers and how much?

P.T.O.

(2)

6. What is galactogouges? Write the names of any two food stuffs which are known as galactogouges.
7. Differentiate between gross fuel value and physiological fuel value.
8. What are the causes of growth faltering?

Group - B

- B. Answer any *four* questions : 5×4=20
9. Explain the role of hormones in milk production. "In spite of breast feeding the infant does not thrive"—Explain. 3+2
 10. Discuss the role of folic acid and iron during pregnancy. Write a short note on "adolescent pregnancy". 3+2
 11. Briefly discuss the nutritional requirement of pre-school child. What are the special factors to be considered regarding the nutritional managemet of that child? 4+1
 12. Discuss the beneficial aspects of exclusive breast feeding. What are your suggestions about the management of a low birth weight baby? 3+2
 13. Define the term "Nutritional Anthropometry". Discuss any four anthropometric methods which are helpful in assessing the nutritional status of a school going girl. 2+3
 14. Write the significance of growth chart. How growth chart is used for growth monitoring? 2+3

(4)

(3)

Group - C

- C. Answer any *one* question : 10×1=10
15. Discuss the factors affecting growth and development. List the pre-pubertal and pubertal changes during adolescence. 3+3+4
 16. Give the complete RDA for a pregnant woman who is in last trimester of pregnancy. What modifications in diet would you suggest for a pregnant woman? State the immunological benefits of breast feeding. 4+4+2