

# The University of Burdwan

## B.Sc. 6 Semester (Honours)

### Examination (CBCS): 2020

#### Subject: Nutrition

#### Course Code: DSE - 3

#### Course Title: Biostatistics and Bioinformatics

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.

Answer all *questions* as instructed

Examinees are instructed to submit the scanned  
copies/photographs of their answerscripts within 30 minutes  
after the completion of examination

#### 1. Answer any eight questions:

5×8=40

- a) Define a bar diagram and mention two disadvantages of it.
- b) Compute the median and mode for following wing length (mm) data of a sample of cockroaches:  
20, 22, 23, 24, 26, 26, 26, 28, 29, 29, 31.
- c) Define 'flat file database' in bioinformatics stating its difference from 'relational database'.
- d) Write the important characteristics of a hypothesis.
- e) How information of bioinformatics helps us in the field of food and nutrition science?
- f) Mention one non-parametric test used for hypothesis testing in statistics and write its principle.
- g) What do you mean by 'rooted' and 'un-rooted' phylogenetic tree?
- h) Write short note on the different types of variable used in statistics.
- i) What is meant by 'statistics of location' and 'statistics of dispersion'- discuss with suitable example.
- j) Write the full forms of: NCBI, FNDDS, BLAST, FASTA, PDB.

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# The University of Burdwan

## B.Sc. 6 Semester (Honours)

Examination (CBCS): 2020

Subject: Nutrition

Course Code: DSE – 3 (OR)

### Course Title: Concept of Research and Health Management

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.

Answer all *questions* as instructed

Examinees are instructed to submit the scanned  
copies/photographs of their answerscripts within 30 minutes  
after the completion of examination

#### 1. Answer any eight questions:

5×8=40

- a) What is research and state the objectives of research.
- b) Write a comprehensive note on 'National Nutrition Policy'.
- c) Illustrate your concept on 'Seminar' and 'Workshop'.
- d) "Why rural development is important"- Explain.
- e) Illustrate your concept on 'Qualitative' and 'Quantitative' research.
- f) What is sampling and write your concept on 'Probability' and 'Non-Probability' sampling.
- g) What is 'National Health Policy' and write the objectives of 'National Health Policy'.
- h) Briefly discuss the five important steps of research.
- i) How action research differs from experimental research-Explain.
- j) Write a short note on 'PERT' and 'CPM'.

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