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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2020**

Family and Community Science

FCS 3B 03—RESEARCH METHODOLOGY AND BIO INFORMATICS

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer atleast **eight** questions.*

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

1. What is scientific method ?
2. List the objectives of social science research.
3. Define descriptive research.
4. What are the merits of survey research ?
5. List the characteristics of a good hypothesis.
6. Define reliability.
7. What is action research ?
8. Jot down the limitations of sampling.
9. What is multistage sampling ?
10. How is the size of a sample for a study determined ?
11. What is normal distribution ?
12. Define sampling frame.

(8 × 3 = 24 marks)

Section B

*Answer atleast **five** questions.*

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

13. Define research. Enumerate the objectives of research.
14. Distinguish between descriptive study and analytical study.

Turn over

15. How is research design prepared ?
16. What are the issues faced in selecting survey methods for a given study ?
17. Differentiate between a) sampling error and sampling bias, b) homogenous and heterogeneous population.
18. Brief on the need for reviewing literature for research.
19. Discuss the different types of interviews.

(5 × 5 = 25 marks)

Section C

*Answer any **one** question.*

The question carries 11 marks.

20. Discuss in detail on the steps involved in research process.
21. Elaborate on the structure and functions of the significant data base resources.

(1 × 11 = 11 marks)

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THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS—UG)

Core Course

FCS 3B 03—RESEARCH METHODOLOGY AND BIO INFORMATICS

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions in one word / sentence.
Each question carries 1 marks.*

1. What are assessment strategies ?
2. List any *two* bioinformatics center's in India.
3. What is experimentation ?
4. List any *two* bioinformatics center's in India.
5. Define variables.
6. Collecting data in systematic and aligned way is called _____.
7. Define research problem.
8. A tool used for collecting large sample are called _____.
9. What is a case study ?
10. Define extraneous variables.

(10 × 1 = 10 marks)

Part B (Short Answer Questions)

*Answer any ten questions.
Each question carries 2 marks.*

11. What is meant by triple A programme?
12. What is meant by dependent variable ?
13. What is sampling ?
14. What are the software's used in bioinformatics ?
15. What is meant by nutritional assessment survey ?
16. Write note on classification of database.

Turn over

17. What is the purpose of a research design ?
18. What is meant by research design ?
19. Discuss the different branches of bioinformatics.
20. What are the important database sources ?
21. Define applied research

(10 × 2 = 20 marks)

Part C

*Answer any five questions in a paragraph.
Each question carries 6 marks.*

22. Write a short note on nutrition assessment survey.
23. Explain briefly on observation methods
24. Write merits and demerits of sampling
25. Explain genbank ?
26. Write short note on database search engines.
27. Write on reporting.
28. What are the application of bioinformatics ?
29. List the merits and demerits of sampling.
30. Write a note on sequence analysis.

(5 × 6 = 30 marks)

Part D (Essay Questions)

*Answer any two questions in a paragraph.
Each question carries 10 marks.*

31. Discuss the application of bioinformatics to relevant fields of home science.
32. Explain different research methods.
33. Elaborate the key bio sequence in molecular biology
34. Explain any four research tools used in research.

(2 × 10 = 20 marks)

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**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2021**

Family and Community Science

FCS 3B 03—RESEARCH METHODOLOGY AND BIOINFORMATICS

(2019—2020 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer at least **eight** questions.*

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

1. Define Hypothesis.
2. What is pure research ?
3. List the purposes of exploratory studies.
4. What are the characteristics of survey research ?
5. What is Validity ?
6. What is Bioinformatics ?
7. What are the types of action research ?
8. Define cluster sampling.
9. Explain sampling error.
10. Define multistage sampling.
11. What is meant by quota sampling ?
12. Define Survey.

(8 × 3 = 24 marks)

Turn over

Section B

Answer at least five questions.

Each question carries 5 marks.

All questions can be attended.

Overall Ceiling 25.

13. Explain the characteristics of research.
14. Make an attempt to classify research.
15. Discuss the process of identification of a research problem.
16. What are sampling errors ? How do they arise ?
17. Discuss the merits and demerits of systematic random sampling.
18. Discuss the salient features of FASTA.
19. Differentiate between questionnaire and schedule.

(5 × 5 = 25 marks)

Section C

Answer any one question.

The question carries 11 marks.

20. Select a research problem and prepare a research design for its study.
21. Trace the application of bioinformatics in different areas of Home Science.

(1 × 11 = 11 marks)