

M.Sc.(Bio-Chemistry) (NEP Pattern) - Semester-I
01MSCBIC07 / STPG01BCH07 - Research Methodology

P. Pages : 2

Time : Three Hours



GUG/W/24/16137

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. Draw neat and labeled diagram whenever it necessary.
 3. All questions carry equal marks.

1. Discuss in detail the criteria's of good research. 16

OR

- a) Discuss different scientific methods of research. 8
- b) What is design and variations? Discuss with proper examples. 8

2. Give a detail account of hypothesis, theory and scientific law. 16

OR

- a) Discuss the types of methods for data collection. 8
- b) Discuss the analysis of primary and secondary data. 8

3. Discuss in detail sampling method with example. 16

- i) Probability sampling
- ii) Systematic sampling

OR

- a) Discuss in detail nominal and ordinal variables. 8
- b) Write a note on problems due to unintended sampling. 8

4. Discuss in detail validation of data by ANOVA. 16

OR

- a) Discuss the design of research chapter. 8
- b) Discuss the different steps of report writing. 8

5. Attempt **any 8** from following.

**8x2
=16**

- a) Define research.
- b) Give two objectives of research.
- c) Define diagnostic research. Give one example.
- d) Give two examples of primary data collection.
- e) Give two examples of secondary data collection.
- f) What is the difference between scientific law and principle?
- g) What is stratified sampling? Give one example.
- h) What is cluster sampling? Give one example.
- i) Give two examples of discontinuous variables.
- j) What is impact factor of journal? How is it calculated?
- k) What is the meaning of citation? Give two types of citation.
- l) Name the software used to conduct ANOVA, DMRT test.
