

2015

BIOTECHNOLOGY

Paper : 304

RESEARCH METHODOLOGY

Full Marks : 80

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Define- 1×8=8
- a) Objectives of Research
 - b) Pilot survey
 - c) Research hypothesis
 - d) Sample size
 - e) Short communication
 - f) Abstract of research paper
 - g) Pubmed
 - h) Chi-Square Test
2. Write short notes on- 2×6=12
- a) Case study

(1)

P.T.O.

- b) Research question
 - c) Literature review
 - d) Demographic variables
 - e) Keywords of research paper
 - f) Observation method of Data collection
3. Distinguish between (any four) 5×4=20
- a) LD₅₀ and LC₅₀
 - b) Research Method and Methodology
 - c) Schedule and Questionnaire
 - d) Primary data and Secondary data
 - e) Simple random sampling and Stratified random sampling
4. Answer the following questions briefly (any two) 8×2=16
- a) Write briefly about the factors of a research design of a research problem. 8
 - b) What are the steps of sample design? Discuss briefly. 2+6=8
 - c) What are the sources of secondary data in a research problem? What characteristics make a secondary data reliable? 4+4=8

5. Illustrate the following questions (any two) $12 \times 2 = 24$

a) What do you mean by Observational study? What are the common study designs in observational studies? Describe these study designs. $2+2+8=12$

b) What are the components of a research project proposal? Describe. 12

c) What is Descriptive study? What are the types of descriptive studies? Where descriptive studies are used? What are strengths and weaknesses of a descriptive study? $2+5+3+2=12$

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