687/Bot. 22-23/61317

## B.Sc. Semester-VI Examination, 2022-23 BOTANY[Honours]

Course ID: 61317 Course Code: SH/BOT/604/DSE-4
Course Title: Research Methodology

Time: 1 Hour 15 Minutes Full Marks: 25

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

- 1. Answer any **five** of the following questions:  $1 \times 5 = 5$ 
  - a) Define metagenomics.
  - b) State two uses of ethanol in research methodology.
  - c) What are fixatives?
  - d) What is a molar solution?
  - e) State two safety ways to handle toxic chemicals.
  - f) What are tabulation of data?
  - g) Define applied research.
  - h) What are coagulating fixatives?
- 2. Answers any **two** of the following questions:  $5 \times 2 = 10$ 
  - a) Describe briefly the descriptive vs analytical research.

- b) Define plagiarism. How it differs from copyright?

  Name one software used to check plagiarized content.

  2+2+1
- c) Define progressive and regressive dyes used for staining plant tissues with one example of each. How departaffinization is performed?

  4+1
- d) Describe briefly about the tabulation and generation of graphs.5
- 3. Answer any **one** question from the following:  $10 \times 1 = 10$ 
  - a) Define mounting. Describe briefly about peel mounts, squash preparations, maceration and sectioning. 2+8
  - b) Write a detailed note on role of ethics in research.Make a brief account on laboratory research.

5+5