

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – BOTANY

RESEARCH METHODOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 What do we call sample value?
(i) Variable (ii) Parameter
(iii) Data (iv) Statistic
- 2 If the ratio of mean and median of a distribution is 2:3 then the ratio of mode and mean is
(i) 5:2 (ii) 2:5
(iii) 2:3 (iv) 3:2
- 3 Ion exchange chromatography is based on the
(i) Electrical mobility of ionic species (ii) Electrostatic attraction
(iii) Adsorption chromatography (iv) Partition chromatography
- 4 In research methodology, interpretation is the search of
(i) Statistical data (ii) Research problem
(iii) Research findings (iv) Research plan
- 5 Which among the following is closely associated with intellectual property rights?
(i) GATs (ii) TRIMs
(iii) MFN (iv) TRIPs

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Bring out the role of statistics in bioscience.
OR
b Differentiate quantitative and qualitative data.
- 7 a State the merits and demerits of Mean and Median.
OR
b Analyze the significance of standard error.
- 8 a Highlight the principle of spectrophotometer.
OR
b Describe the principles of centrifugation.
- 9 a Explain the importance of objectives in research.
OR
b How to collect the review of literature?
- 10 a Describe the brief note on IPR.
OR
b Explain how to protect the plant varieties?

Cont...

SECTION -C (30 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Define sample. Categorize the various sampling methods.
OR
b Outline the classification of data.
- 12 a Analyze the measures of dispersion.
OR
b Examine the various types of regression analysis and its uses.
- 13 a Summarize the principle, procedure and significance of TLC.
OR
b Elucidate the principle, procedure and application of Agarose gel.
- 14 a Explain how to write the dissertation.
OR
b Discuss about the paper presentation through oral and poster.
- 15 a Analyze the various steps involved in patents.
OR
b Point out the farmer's right.

Z-Z-Z

END