

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025
(Fourth Semester)

Branch - BOTANY

RESEARCH METHODOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following statements is true about the collection of data? a. The data that is collected from the place of origin is known as primary data b. The data that is collected from the place of origin is known as secondary data c. The data that is collected from the place of origin is known as tertiary data d. None of the above	K1	CO1
	2	Which of the following statements is true about data in research? a. The data used for research is quantitative b. The data used for research can be qualitative but never quantitative c. The data used for research can be both quantitative and qualitative d. The data used for research can be quantitative but never qualitative	K2	CO1
2	3	What is the mean of the following numbers: 23, 45, 87, 40, 50? a. 49 b. 34 c. 56 d. None of the above	K1	CO2
	4	Mode refers to the value within a series that occurs _____ number of times. a. Maximum b. Minimum c. Zero d. Infinite	K2	CO2
3	5	The time at which specific analyte elute out is termed as _____. a. K_m b. half-life c. retention time d. pK_a	K1	CO4
	6	What is the wavelength range of the UV spectrum? a. 100 nm to 500 nm b. 200 nm to 800 nm c. 300 nm to 1000 nm d. 400 nm to 1600 nm	K2	CO4
4	7	Review of literature means? a. Documentation of referenced material b. Overview of the previously published works on specific topic c. Formation of a theoretical framework d. Elucidating and testing hypothesis	K1	CO5
	8	Objective of the study must be framed a. first b. last c. both d. none	K2	CO5
5	9	_____ is not a requirement for registration of a Trade Mark. a. Capability of graphical representation b. Capability of distinguishing goods or services of one undertaking from those of others c. Capability of indicating connection in course of trade d. The Trade Mark should be well known	K1	CO6
	10	Full form of IPR is _____. a. Intellectual Property rights b. Indian Property rights c. Individual Property rights d. International Property rights	K2	CO6

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain about quantitative data.	K2	CO1
	(OR)			
	11.b.	Summarize about tabulation.		
2	12.a.	Organize the correlation and regression.	K3	C02
	(OR)			
	12.b.	Make use of standard error.		
3	13.a.	Experiment with centrifugation.	K3	CO4
	(OR)			
	13.b.	Construct a TLC.		
4	14.a.	Categorize the planning of study for a dissertation.	K4	CO5
	(OR)			
	14.b.	Analyze about oral paper presentation.		
5	15.a.	Explain about industrial design.	K4	CO6
	(OR)			
	15.b.	Analyze about plant variety certification.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Evaluate the types of graphical representation of data.	K5	CO1
2	17	Conclusion of mean, median and mode.	K4	CO2
3	18	Discover the principle of agarose electrophoresis.	K4	CO3
4	19	Justify the review of literature.	K5	CO4
5	20	Elaborate the concept of trademark.	K6	CO5

Z-Z-Z

END