

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 2024
(Third Semester)
Branch - BOTANY

TRENDS IN PLANT RESEARCH

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	When the power of ocular lens is 10 X and objective lens is 20 X, the magnification is? a) 30 times b) 20 times c) 200 times d) 2000 times	K1	CO1
	2	Which of the following is the formula for pH calculation? a) $\log_{10}[H^+]$ b) $-\log_{10}[H^+]$ c) $\log_2[H^+]$ d) $-\log_2[H^+]$	K2	CO1
2	3	What is the Principle of centrifugation? a) Evaporation principle b) Sedimentation principle c) Filtration principle d) size reduction principle	K1	CO2
	4	Who invented centrifugation? a) GG Stokes b) Antonin Prandtl c) Louis Pasteur d) Johnstone	K2	CO2
3	5	Square root of the mean of square deviation is known as a) Variance b) Median c) SD d) Mean	K1	CO3
	6	When the size of samples is increasing then variance of sample means is also; a) Increases b) Decreases c) Constant d) None of the above	K2	CO3
4	7	The term "WIPO" stands for:- a) World Investment policy organization b) World intellectual property organization c) Wildlife Investigation and Policing organization d) World institute for Prevention of organized crime	K1	CO4
	8	Which of the following can you copyright? a) Literary work b) Ideas c) Choreographic work d) Fashion	K2	CO4
5	9	UGC Stands for a) University Governance Council b) Union Government Commission c) University Grants Commission d) Union government Council	K1	CO5
	10	The last state of research process is: a) Review of literature b) Report writing c) Research design d) Analysis of data	K2	CO5

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.	Construct a Flame Photometer.	K3	CO1
		(OR)		
	11.b.	Construct the Clinical Centrifuge System.		
2	12.a.	Examine the Principles of Column Chromatography.	K4	CO2
		(OR)		
	12.b.	Understand the Function and Applications of Atomic Absorption Spectroscopy.		
3	13.a.	Analyze the Student's t-test Procedure.	K4	CO3
		(OR)		
	13.b.	Distinguish between the Chi-square test and F-test.		
4	14.a.	Determine Copyright Regulations.	K5	CO4
		(OR)		
	14.b.	Explain the Biosafety Cabinets.		
5	15.a.	Discover the Components of Thesis Writing.	K4	CO5
		(OR)		
	15.b.	Assess the Criteria for Reference Styles.		

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 working principle of Fluorescence microscopy.	K5	CO1
2	17	Discuss the Principle and Applications of various uv – visible double beam Spectrophotometer.	K6	CO1
3	18	Compare and Contrast Correlation and Regression Analysis.	K5	CO3
4	19	Elaborate the Principles of Good Laboratory Practices (GLP) and their importance in Research.	K6	CO4
5	20	Explain the Characteristics and Types of Research Problems.	K5	CO5

Z-Z-Z

END