PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2025

(Third Semester)

Branch-BOTANY

TRENDS IN PLANT RESEARCH

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks) Answer ALL questions

		Answer ALL questions ALL questions carry EQUAL marks $(10 \times 1 = 10)$		
Module No.	Question No.	ALL questions carry EQUAL marks $(10 \times 1 = 10)$ Question	K Level	СО
1	1	in simple microscope used to control the amount of light passing through the stage. a) Diaphragm b) Stage c) Condenser d) Base	K1	CO1
	2	Why colorimeter is used to measure the absorbance of a colored compound in a solution? a) It is very low in terms of detecting b) It does not cause the light wave to move c) It measures the particular wavelength of light d) Colorimeter is not used to measure the colored compound	K2	CO1
2	3	Chromatography is a physical method that is used to separate and analyse a) Simple mixtures b) Complex mixtures c) Viscous mixtures d) Metals	K1	CO2
	4	What is atomic spectroscopy? a) Change in energy at atomic level b) Change in energy at photon level c) Change in energy at electron level d) Change in energy at molecular level	K2	CO2
3	5	The mean of the square deviation about mean is known as; a) Mean b) Median c) Variance d) Standard deviation	K1	CO3
	6	Chi-square test is always used to test a) Population mean b) Population median c) Test of association d) None of these	K2	CO3
.4	7	What is the term of copyright for an author of a book? a) 100 years b) The life of the author c) The life of the author plus 60 years d) The life of the author plus 50 years	K1	CO4
	8	What is the importance of 'trade secrets"? a) Monopoly creators b) Intellectual property right protection c) Employee motivation d) Competitive advantage	K2	CO4
5	9	The crucial aspect of scientific process is a) The problem b) The hypothesis c) The method d) The result	K1	CO5
	10	Thesis is also known as: a) Research report b) Monograph c) Dissertation d) Book	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks $(5 \times 7 = 35)$

Module No.	Question No.	Question	K Level	СО
1	11.a.	Justify the Fundamental Principles of Microscopy.		
	(OŘ)		K5	CO1
	11.b.	Explain the Methodology of Colorimetry.	, 	
2	12.a.	Discover the Principles of Nuclear Magnetic Resonance.	K4	CO2
		(OR)		
	12.b.	Examine Mass Spectrometry.		
3	13.a.	Evaluate the Correlation.	K.5	
		(OR)		CO3
	13.b.	Justify the Application of Biostatistics.		-
4	14.a.	Analyze the Different Types of Intellectual Property Rights.		
	(OR)		K4	CO4
	14.b.	List the Significance of Good Laboratory Practice.		
5	15.a.	Discuss the Importance of a Comprehensive Literature Review in Scientific Research.		
	(OR)		K6	CO5
	15.b.	Analyze the Process of Proof Correction.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	со
1	16	Elaborate on the Types and Functions of Centrifugation.	K6	CO1
2	17	Explain the basic Principles, and Different Types of Chromatography.	K6	CO2
3	18	Discuss the Different Types of Hypothesis Testing.	K6	CO3
4	19	Construct a Comprehensive Overview of Biosafety Regulations.	K6	CO4
5	20	Explain the Concept and Importance of Literature Review.	K5	CO5

Z-Z-Z END