

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2025  
(Fourth Semester)

Branch - APPLIED MICROBIOLOGY

**MAJOR ELECTIVE COURSE – II: ENTREPRENEURSHIP IN BIOSCIENCES**

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 these is not a type of entrepreneurship? a. Small business entrepreneurship b. Scalable entrepreneurship c. Large scale entrepreneurship d. Intrapreneurship	K1	CO1
	2	Which of these is not a challenge for the entrepreneur? a. Managing the cash flow of their business b. Recruiting new employees c. Choosing the product or service to sell in the market d. Formulating rules and regulations relating to conducting entrepreneurship in their country	K2	CO1
2	3	Which one of the following is not a characteristic feature of plantation agriculture? a. Large capital investment b. Managerial and technical support c. Scientific methods of cultivation d. Multiple crop specialization	K1	CO2
	4	Method of growing crops in a controlled environment using plastic or metal frames with transparent roofs and walls. a. Green-house culture      b. White-house culture c. Mono-house culture      d. Poly-house culture	K2	CO2
3	5	Which of these pollutants is a major contributor to pollution resulting from industrial activities? a. Carbon monoxide      b. Sulfur dioxide c. Nitrogen oxides      d. Methane	K1	CO3
	6	The compound required by Rhizobium to fix atmospheric nitrogen is called a. Leghaemoglobin      b. Heterocyst c. Acetosyringon      d. Lectin	K2	CO3
4	7	Foods that nourish beneficial gut bacteria are called as a. Probiotics      b. Probiotic supplements c. Prebiotic      d. Synbiotics	K1	CO4
	8	Which of the following earthworm species is most stable in Indian conditions? a. Epifilis      b. Perionyx      c. Endogens      d. Aneciques	K2	CO4
5	9	SIDO stands for a. Small Industries Developing Organization b. Small Industries Development Organization c. Short Industries Development Organization d. Semi Industries Development Organization	K1	CO5
	10	The global event Bio-India 2024 organized by a. DBT      b. DST c. DBT & BIRAC      d. DBT & DST	K2	CO5

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**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 the Scope of bio-entrepreneurship.	K3	CO1
	(OR)			
	11.b.	Describe about the characteristics of small scale industries.	K3	
2	12.a.	Write short notes on polyhouse culture.	K4	CO2
	(OR)			
	12.b.	Illustrate biosensor development in agri management.	K4	
3	13.a.	State about scope and challenges in integrated compost production.	K3	CO3
	(OR)			
	13.b.	Mention business opportunity on pollution monitoring.	K4	
4	14.a.	Compare and contrast probiotic and prebiotics.	K3	CO4
	(OR)			
	14.b.	How can you utilize agro wastes for biogas production.	K5	
5	15.a.	Give a note on biotech business challenges in Indian context.	K3	CO5
	(OR)			
	15.b.	Brief a story of successful start-up on bio-entrepreneur from your case study.	K5	

**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	Briefly explain about stages in entrepreneurial process.	K4	CO1
2	17	Discuss various value added herbal products.	K4	CO2
3	18	Describe the key steps that lead in marketing strategies in bio-control.	K4	CO3
4	19	Explain the process of drinking water treatments.	K5	CO4
5	20	Enlighten the Indian Company act for bio-business.	K5	CO5

Z-Z-Z

END