

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – APPLIED MICROBIOLOGY

MAJOR ELECTIVE COURSE – II:
ENTREPRENEURSHIP IN BIOSCIENCES

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 An enterprises based on utilization of biological knowledge.
(i) Bio-Research (ii) Bio-business
(iii) Biotechnology (iv) Biosensor
- 2 Which crop have been called orphan crop?
(i) Cassava (ii) Sweet potato
(iii) Tomato (iv) Carrot
- 3 All are biopesticides except
(i) Trichoderma viride (ii) Bacillus thuringiensis
(iii) Nuclear polyheadrosis Virus (iv) Agrobactrium Sp
- 4 The optimum temperature for the rapid feeding of *Lumbricus rubellus*.
(i) 10–20 °C (ii) 20–35 °C
(iii) 15–25 °C (iv) 25 –45 °C
- 5 India's First Biotech Park at
(i) Delhi (ii) Ghatti
(iii) Bangalore (iv) Bombay

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Illustrate the SWOT of Biobusiness.
OR
b List out stages in Entrepreneurial process.
- 7 a Write short note on polyhouse culture and uses.
OR
b Define biosensor. Explain their application in agricultural management.
- 8 a Concise the challenges and scope in industrial biotechnology for biobusiness.
OR
b Summarize the merits and demerits of biofertilizers their impact on marketing.

Cont...

- 9 a What is probiotics and prebiotics? Explain with suitable example.
OR
b Briefly explain about biogas production and marketing.
- 10 a Write about the activity of Biotech park in India.
OR
b What are main points consider when you writing a project proposal?

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Discuss about the Govt., Scheme and funding support availability for bioentrepreneurship.
OR
b Confer the characteristics, need and rationale of small scale Industries.
- 12 a Discuss about value added herbal products.
OR
b Write in detail about bioethanol production process from algae.
- 13 a Elaborate the mass production of a bacterial biopesticide and its advantages.
OR
b Explain the process of single cell protein production with suitable example.
- 14 a Describe the detail of vermicompost production, formulation and its marketing strategies.
OR
b Elaborate the mass production of a carrier based biofertilizer and advantages in handling.
- 15 a What to you Know about BIRAC? How it helpful for entrepreneurial process.
OR
b Discuss about Indian company act for biobusiness.

Z-Z-Z

END