

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023

(Second Semester)

Branch – BOTANY

ZOOLOGY – II

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 The main characteristic feature of an insect is.  
(i) Three pairs of legs (ii) Presence of wings  
(iii) Pair of antennae (iv) All of these
- 2 Which of the following pest causes onion needle or silver shoot symptoms in rice?  
(i) *Nephotettix nigropictus* (ii) *Cofana spectra*  
(iii) *Orseolia oryzae* (iv) *Hydrellia philipiana*
- 3 The phenomenon of using a predator for controlling a pest is \_\_\_\_\_.  
(i) Artificial control (ii) Biological control  
(iii) Genetic engineering (iv) Confusion technique
- 4 Mulberry plant is a \_\_\_\_\_.  
(i) Annual plant (ii) Biennial plant  
(iii) Evergreen (iv) Perennial
- 5 Which of the following silkworm diseases is caused by a protozoan parasite?  
(i) Pebrine (ii) Grasserie  
(iii) Flacherie (iv) Muscardine

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Summarise the general characteristics of the order Hemiptera and mention their economic importance.  
OR  
b Classify the sub-class Apterygota up to orders and give suitable examples.
- 7 a Explain the most common symptoms of damage caused by *Tryporyza nivella*.  
OR  
b How does the leafhopper *Amrasca biguttula* damage crops?
- 8 a Narrate the advantages and disadvantages of using chemical control methods for pest management.  
OR  
b Outline the four main classes of pesticides with suitable examples.
- 9 a List the popular varieties of mulberry plants and write down their salient features.  
OR  
b Explain how nutrient deficiencies affect the growth and yield of mulberry plants.

Cont...

10 a Describe the morphological features of silkworms and draw a neat diagram.

OR

b Discuss the impact of Grasserie disease on the silk industry.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11 a Give an account of the general characters of class Insecta and classify them up to orders.

OR

b Point out the salient features of the orders Hymenoptera and Diptera. Add a note on their economic importance.

12 a Elucidate the lifecycle of *Orseolia oryzae* and write about its impact on rice yields.

OR

b Examine the morphology and lifecycle of *Pectinophora gossypiella*.

13 a Discuss the different types of biological control agents that can be used to manage pests.

OR

b Compare the advantages and disadvantages of using different classes of pesticides.

14 a Analyse the symptoms, causes, and control measures of powdery mildew in mulberry plants.

OR

b Highlight the importance of sustainable pest and disease management practices in mulberry production.

15 a Discuss the lifecycle of *Bombyx mori* in detail.

OR

b Outline the different methods of silkworm rearing and the appliances used for sericulture.

Z-Z-Z

END