

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2023  
(Sixth Semester)

Branch – ZOOLOGY

ENVIRONMENTAL BIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 x 1 = 10)

- 1 \_\_\_\_\_ is the mature soil that lies immediately over the parent rock.  
(i) Secondary soil (ii) Residual soil  
(iii) Zonal soil (iv) Hydromorphic soil
- 2 Hard water contain soluble salts of \_\_\_\_\_ and magnesium.  
(i) Calcium (ii) Lead  
(iii) Mercury (iv) Nitrogen
- 3 The relationship between sea-anemone and hermit crab exhibits \_\_\_\_\_.  
(i) Mutualism (ii) Commensalism  
(iii) Parasitism (iv) Antibiosis
- 4 Who proposed the term 'ecosystem'?  
(i) Ernst Haeckel (ii) Charles Elton  
(iii) A.G. Tansley (iv) Clarke
- 5 In the sea, \_\_\_\_\_ is the zone of shallow water extending up to the depth of 200 metres.  
(i) Oceanic Zone (ii) Abyssal zone  
(iii) Aphotic Zone (iv) Neritic Zone
- 6 \_\_\_\_\_ is the place where a river meets the sea.  
(i) An estuary (ii) Lake  
(iii) Pond (iv) Lagoon
- 7 \_\_\_\_\_ rate of population refers to number of individuals dieing per unit of time.  
(i) Mortality (ii) Natality  
(iii) Density (iv) Age
- 8 Which of the following is responsible for the Bhopal tragedy?  
(i) Nitrogen oxide (ii) Mercury  
(iii) Lead (iv) Methyl Isocyanate
- 9 Manas sanctuary is located in:  
(i) Assam (ii) Kashmir  
(iii) West Bengal (iv) Gujarat
- 10 Point Calimere sanctuary is situated in \_\_\_\_\_ district of Tamil Nadu.  
(i) Coimbatore (ii) Thanjavur  
(iii) Tirunelveli (iv) Madurai

Cont...

**SECTION - B (35 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 7 = 35)

- 11 a What are the effects of photoperiodism on animals and plants?  
OR  
b What are stenohaline and euryhaline animals? – explain it with examples.
- 12 a Write short note on food web with suitable example.  
OR  
b Describe the pyramid of energy.
- 13 a Give an account on the various zones of the ocean.  
OR  
b Write a note on cave adaptations.
- 14 a Discuss the age structure in different types of population.  
OR  
b Noise pollution – write in detail.
- 15 a What do you mean by ‘means of dispersal’? Explain.  
OR  
b Comment on Wallace’s line of zoogeographical regions of faunal distribution.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Discuss ‘temperature’ as an environmental factor.
- 17 What is an ecosystem? Explain the various components of an ecosystem with suitable examples.
- 18 Discuss the pond as a freshwater habitat.
- 19 Write an essay on the water pollution.
- 20 Explain in detail about the wildlife conservation.

Z-Z-Z

END