

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(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)

- Which one of the following factors is biotic?
(i) photoperiod (ii) Co₂ content of the soil
(iii) texture and porosity of soil (iv) Rainfall
- Which soil types is having highest phosphorus fixing capacity?
(i) Black soil (ii) Alluvial soil (iii) Clay (iv) Red soil
- When the interaction between species do not have effect on the species then it is known as...
(i) Commensalism (ii) Mutualism (iii) Neutralism (iv) Symbiosis
- Which is the most stable ecosystem?
(i) Mountain (ii) Desert (iii) Forest (iv) Ocean
- Where can we find both running water as well as stagnant water?
(i) Marine Ecosystem (ii) Wetlands
(iii) Coral reefs (iv) Freshwater Ecosystems
- Which ecosystem has the highest primary productivity?
(i) Forest Ecosystem (ii) Lake Ecosystem
(iii) Grassland Ecosystem (iv) Pond Ecosystem
- A population that exhibits birth rates that are identical to the death rate implies
(i) Initial growth (ii) Plateau phase
(iii) Acceleration Phase (iv) None of the above
- Air pollution causes
(i) Global warming (ii) Soil erosion
(iii) Respiratory problems (iv) Nitrogen fixation
- The movement of organisms from one place to another
(i) Continental drift (ii) Biogeography
(iii) Exotic species (iv) Dispersal
- Which of the following animals is endangered and also the National animal of India?
(i) Gir Asiatic Lions (ii) Peacock (iii) Red Panda (iv) Bengal Tiger

SECTION - B (35 Marks)

Answer ALL Questions

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

11. a). Narrate the different types of Atmospheres.

OR

b). Explain about the summer stratification.

12. a). Describe about the types of commensalism.

OR

b). Classify the Grazing food chain.

Cont...

13. a). Narrate the adaptation of intertidal animal .

OR

b). Explain about the desert biome.

14. a). Give an outline for causes of water pollution.

OR

b). Classify the factors affecting animal distribution.

15. a). To give an outline about means of dispersal.

OR

b). Give an account on conservation of wildlife in India.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

16. Biological effects of light- Summarise.

17. Summarise the ecological pyramids.

18. Discuss about the types of ponds and its characteristics.

19. Explain about ecological effects of air pollution.

20. Justify the zoogeographic regions of world.

Z-Z-Z

END