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SARDAR PATEL UNIVERSITY

Bachelor of Science (Semester V) Examination – 2022

US05CZOO24: Ecology and Animal Behavior

Date: 14/11/2022 (Monday)

Time: 10.00 a.m. to 01.00 p.m.

Total: 70 Marks

Q. 1 Multiple Choice Questions

(10)

1. The number of individuals of specie in a unit area is called:
(a) Abundance (b) Density (c) Frequency (d) Cover
2. The natural place of an organism or community is known as
(a) Niche (b) Biome (c) Habitat (d) Habit
3. Ecotone is the.....
(a) Deep ecosystem (b) Vertical ecosystem (c) Competition (d) All of above
4. A mutual relationship between two organisms, where both of them are benefitting from watching the other is called:
(a) Mutualism (b) Symbiosis (c) Parasitism (d) Food chain
5. Courtship occurs in Cuckoo by
(a) Visual (b) Sound (c) Pheromones (d) Light
6. Levels of light lead tolevel of melatonin.
(a) Low; High
(b) Low; Low
(c) High; High
(d) High; Low
7. Full form of "IUCN"
(a) The International Union for Conservation of Nature
(b) The International Unity for Conservation of Nature
(c) The International Union for Convention of Nature
(d) None of above
8. The menstrual cycle is an example ofrhythm.
(a) Infradian (b) Circadian (c) Circannual (d) Ultradian
9. Which mating system involves a male mating with multiple females during a reproductive season?
(a) Monogamy (b) Polygamy (c) Polygyny (d) Androgyny
- 10 Our sleep wake cycle follows a.....
(a) Circadian (b) Infradian (c) Circannual (d) Ultradian

[1]

(P.T.O.)

Q. 2 Short Answer Questions (Attempt Ten out of Twelve) (20)

1. What are the reasons of competition?
2. Define the types of fertilization with suitable example.
3. Define: Eutrophication.
4. What is Epicycle?
5. Define: Dominance.
6. What is Natural biodiversity?
7. Examples of short-term rhythms.
8. Explain the term sexual dimorphism with examples.
9. What is Keystone species?
10. Write about effects of ozone layer depletion.
11. Write about attention and courtship by sound.
12. What is Amplitude and Phase of biological clock?

Q.3 (A) Explain the Species richness with suitable examples. (05)

(B) Describe: Edge effect. (05)

OR

(A) Describe: Vertical stratification. (05)

(B) Write a note on Niche overlap. (05)

Q.4 (A) Write a detail note on Values of biodiversity. (10)

OR

(A) Explain the Green house effect in detail. (10)

Q.5 (A) Describe any two methods of studying animal behavior. (05)

(B) Write a note on Male rivalry. (05)

OR

(A) Explain the courtship in Stickle back fish. (10)

Q.6 (A) Describe the role of Photoperiod in reproduction. (05)

(B) Write a note on Chronopharmacology. (05)

OR

(A) Explain the Circadian rhythm with examples. (05)

(B) Write a note on Lunar rhythm with examples. (05)

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