

[33]

SEAT No. _____

No. of pages-1

No. of Printed Pages : 1

SARDAR PATEL UNIVERSITY
M. Sc (Int.) Biotechnology: Semester II Examination
Thursday, 28th March, 2019
Time: 10.00 am to 1.00 pm
Sub: PS02SIGB21: Environmental science

Total Marks: 35

Q-1 Give the answer by choosing appropriate option.

[5 X 1]

- (1) Ecology deals with the study of.....
 - (a) Living beings
 - (b) Living and nonliving components
 - (c) Reciprocal relationship between living and nonliving components
 - (d) Environment
- (2) Food chain and food web is made up of
 - (a) Ecological niche
 - (b) Trophic levels
 - (c) Ecological community
 - (d) Community
- (3) Which one of the following areas in India, is a hotspot of biodiversity?
 - (a) Arunachal pradesh
 - (b) Western ghats
 - (c) Eastern ghats
 - (d) Gangetic plain
- (4) Following threatens biodiversity....
 - (a) Pollution
 - (b) Habitat destruction
 - (c) Plantation
 - (d) Both a and b
- (5) In a food chain of grass land ecosystem, the top consumers are...
 - (a) Herbivorous
 - (b) Carnivorous
 - (c) Bacteria
 - (d) Either herbivorous or carnivorous

Q-2 Answer the following questions in short. (Any three)

[3 X 2]

- (1) What is ex-situ conservation? Enlist the methods of it.
- (2) Explain autotrophic component of an ecosystem.
- (3) Explain the role of consumers in desert ecosystem.
- (4) Define ecosystem and food web.
- (5) Explain-Why should we worry about conservation?

Q-3 (a) Discuss the food chain with appropriate examples.

[06]

(b) Write a brief note on grassland ecosystem.

[06]

OR

(b) Discuss biotic components of pond ecosystem.

[06]

Q-4 (a) Enlist the causes of extinction of species. Explain any two.

[06]

(b) Give a brief note on national park as in-situ conservation method.

[06]

OR

(b) Explain – How do we benefit from biodiversity?

[06]

*****X*****

(1)