

[58/A-19]

SEAT No. \_\_\_\_\_

No. of Printed Pages : 3

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SARDAR PATEL UNIVERSITY

S.Y.B.Sc.3<sup>rd</sup> SEMESTER EXAMINATION

20<sup>th</sup> November 2018, Tuesday

2.00 PM to 5.00 PM

Concept of Ecology (US03CENV01)

Total Marks-70

Q.1 Multiple Choice Questions (one mark each) 10

1. \_\_\_\_\_ is uniform interbreeding population spread over time and space.  
(a)vegetation (b)species (c)habitat (d)abundance
2. Pyramid of energy should always have \_\_\_\_\_ condition.  
(a)downward (b)inverted (c)opposite (d) upright
3. \_\_\_\_\_ food chain goes from dead organic matter and microorganisms.  
(a)Grazing (b)Herbivores (c)Carnivores (d)Detritus
4. Population of individuals of more than one species is known as \_\_\_\_\_ population.  
(a) monospecific (b)mixed (c)polyspecific (d) b & c both
5. \_\_\_\_\_ proposed the term biotic potential.  
(a) Chapman (b) Graham (c)J.Harper (d) J.White
6. Polyspecific population is referred as \_\_\_\_\_  
(a)Community (b)Locality (c) Cluster (d)Ecology
7. There are mainly \_\_\_\_\_ zones in Zonation.  
(a)5 (b)4 (c) 3 (d) 2
8. \_\_\_\_\_ is the next step of migration and ecesis.  
(a) colonization (b)climax (c)succession (d)none
9. River is a \_\_\_\_\_ type of habitat.  
(a) lentic (b)lotic (c)standing water (d)all of the above
10. \_\_\_\_\_ is shallow water region of lake.  
(a) littoral zone(b)limnetic zone(c)profundal zone (d) none

Q.2. Answer any ten

20

1. Discuss grazing food chain.
2. Write in brief about gross primary productivity.
3. Write in brief about pyramid of energy.
4. Explain population with its types.
5. Explain biotic potential.
6. Define mortality with its types
7. Write a note on basic types of succession.
8. Write a short note on composition of Community.
9. Discuss in brief origin and development of a Community.
10. Discuss the term habitat.
11. Write short note on shallow water production zones.
12. Draw a sketch showing three major zones of lake.

- Q3.a. Write a note on pyramid of number. 5
- b. Write a short note on structure of ecosystem. 5

OR

- Q3.a. Discuss pyramid of biomass . 5
- b. Explain the food webs of Ecosystem. 5

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- Q4.a. Write about Population dispersion. 5
- b. Write a note on Age structure of population. 5

OR

Q4.a. Write in brief about population size and density with proper diagram. 5

b. Explain survivorship curve in detail with diagram. 5

Q5.a. Describe in detail about zonation with diagram. 5

b. Write a note on hydrosere. 5

OR

Q5.a. Write in brief about synthetic characters of community. 5

b. Write a note on quantitative characters of community. 5

Q.6. Write in detail about Estuarine Ecology. 10

OR

Q6. Give a brief note on Desert Ecology. 10



