SARDAR PATEL UNIVERSITY S. Y. B.Sc. (3rd SEMESTER) EXAMINATION 22.11.2019,Friday

2.00 to 5.00PM Environmental Science

US03CENV01

Concept of Ecology

aiways shows unright c	condition	` '
(b) Biomass	(c) Number	(d) None of above
kinds of ecosyster	m	
		(d) 2
(o) Dispersion	(c) Random	(d) Survivorship curve
racteristics of the specie	es in which the popula	tion mortality rate is low in
(b) Convex	(c) Concave	(d) none of these
low percentage of you (b) Urn-shaped	nng individuals (c) Round shape	(d) Bell- shaped
type of com	munity character.	
(o)quantitative	(c) qualitative	(d) none
type of commur (b) quantitative	nity character (c) synthetic	(d) physiognomic
nigration and subseque	nt ecesis.	
(b) stratification	(c) competition	(d) colonisation
hasizes the totality or I	pattern of relationships	between organisms and
		(d) Freshwater
a in all of its aspects is	termed as	
(b) Estuarine	(c) limnology	(d) Oceanography
	(1)	(P:T·O)
	always shows upright of (b) Biomass kinds of ecosystem (b) 3 nof one individual is under (b) Dispersion racteristics of the species (b) Convex low percentage of you (b) Urn-shaped type of community (b) quantitative type of community (b) quantitative higration and subseque (b) stratification shasizes the totality or pure (b) Estuarine a in all of its aspects is	of one individual is unrelated to the position (b) Dispersion (c) Random acteristics of the species in which the popular (b) Convex (c) Concave low percentage of young individuals (b) Urn-shaped (c) Round shape type of community character (b) quantitative (c) qualitative type of community character (b) quantitative (c) synthetic nigration and subsequent ecesis. (b) stratification (c) competition chasizes the totality or pattern of relationships

Q2. Answer the following questions. (Any ten)	[20]
 Write a note on pyramid of energy. Draw a labeled diagram of Y-shaped energy flow model Write a note on biotic and abiotic components of ecosystem. Define population and enlist the population characteristics Give a short note on Dispersion. Write down the difference between r-selected and k-selected population Give a short note on phenograms with example of Indian grassland Discuss presence and Constance are considered as synthetic character Write a note on abundance as a qualitative character Describe in brief Abiotic component of pond ecosystem Define: Desert Ecology Write a short note on biotic component of ocean ecosystem 	ردی
Q3. (a) Write a note on pyramid of biomass with suitable examples(b) Give a note on single channel energy model	(05) (05)
OR	
Q3. (a) Give a note on Food web (b) Discuss ecological energetic with energy flow in various ecosystem	(05) (05)
Q4. (a) Describe in detail about survivor curve (b) Explain nature of factors that influence population density	(05) (05)
OR	
Q4. (a) Write a detail note on Age structure(b) Discuss Natality and Mortality in detail	(06) (04)
Q5. (a) Discuss various types of zones in community structure with proper diagram (b) Give a short note on stratification with suitable example	(07) (03)
OR	
Q5. (a) Write a detail note on quantitative characters of community.	(07)
(b) Discuss species diversity as characteristic of a community study	(03)
Q6. Explain zonation in sea and communities of marine environment.	(10)
OR	
Q6. Describe Biotic component of Pond ecosystem	(10)