(19 & A-8)

SEAT No.

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY S.Y.B.Sc. 4th SEMESTER EXAMINATION 7th APRIL 2018, Saturday 10.00 AM to 1.00 PM

Components of Ecology (US04CENV01)

Total Marks-70 Q.1 Select the answer and write it in answer sheet (10) Well-developed aerenchyma is feature of ______ a. xerophytes b.halophytes c.mesophytes d. hydrophytes 2. _____ is free floating plant species a. Pistia b. Lemna c. Azolla d. All of above 3. Toxic effects of molecular O2 is protected by ____ cells a. Ribosomes b. Golgibodies c. Peroxisomes d. Mesophyll 4. Atmosphere comprises of _____ percent of nitrogen a. 79 b. 89 c. 69 d. 59 5. In Sulphur cycle, _____ is formed by micro-organisms in aerobic condition a. organic residues b. proteins c. sulphide d. sulphate 6. _____ is not a negative type of biotic interaction a.commensalism b. predation c. antibiosis d. parasitism 7. The parasites which are growing on other parasite are known as _____ a. parparasites b. hyperparasites c. hypoparasite d. skimpyparasite 8.In ecological cycle, vegetative reproduction takes place after _____ stage a. perennation b. propagation c. viability d. sprouting 9. Sal tree is common species in _____ region a. Central India b. Indus Plain c. Western Himalaya d. all of above 10. _____ is richest vegetative region in India a. Deccan b. Central India c. Eastern Himalaya d. Gangetic plain (P.T.O.)

1. Wr 2. En 3. Dis 4. Wr 5. Dis 6. Giv 7. Ho 8. Wh 9. Wr 10. Do	inswer in brief (Any ten) rite a note on morphological feature of hydrophytes list types of xerophytes scuss anatomical features in halophytes rite in brief about phosphorus cycle in soil scuss various equations in nitrogen cycle we a brief note on importance of carbon cycle wintraspecific competition works as negative interaction? nat are Epiphytes and Epizoans? rite a brief note on Shelford's law of tolerance efine the term (i) Phytogeography (ii) Zoogeography iscuss in brief plant communities of the world rite a short note on diverse fauna of India	(20)
Q. 3	(a)Define the term hydrophytes. Discuss its classification(b) Discuss morphological structures of xerophytes	(05) (05)
	OR	(05)
Q. 3	(a)Discuss general features of non-succulent plants	(05)
	(b) Write a note on Ecological adaptation in animals- Mesocoles	(05)
Q. 4	Write a detail note on oxygen cycle with suitable diagram OR	(10)
Q. 4	(a)Discuss in detail working of sulphur cycle	(06)
	(b) Draw a labelled diagram of carbon cycle	(04)
Q. 5	(a) Write a brief note on exploitation as a type of negative interaction	(05)
	(b) How does Liebig's Law of minimum work? Discuss	(05)
	OR	
Q. 5	(a) Give a detailed account on biological clock	(05)
	(b) Write in brief about Mutualism as a positive interaction	(05)
Q. 6	(a) Write a note on Phyto-geographical regions of India	(05)
	(b) Discuss in brief about factors determining distribution of animals	(05)
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Q. 6	(a) Write a note on Floristic regions of India	(05)
Ł	(b) Give a note on Zoo-geographical regions of World	(05)