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SARDAR PATEL UNIVERSITY

B.Sc. Ist Semester Examination

Sub. : Environmental studies Code: US01EENV04

Date : 02-12-13, Monday Time : 2.30 To 4.30 Total marks : 70

Q. 1 Multiple choice questions .

10

- (1).....constitute 97% of all water available on earth.
(a) Lakes (b) Oceans (c) Rivers (d) Biomass
- (2) The outer crust layers are also known as.....layers .
(a) SIMA (b) SIAL (c) NIFE (d) SINI
- (3) The thickness of stratosphere is about :
(a) 12 km (b) 25km (c) 36km (d) 50 km
- (4) Tiger is an example of :
(a) Producer (b) Herbivore (c) Primary consumer (d) Tertiary consumer
- (5) Which one of the following is an autotrophic component ?
(a) Algae (b) Virus (c) lion (d) Fungi
- (6) Thermophilic bacteria are found in :
(a) Forest ecosystem (b) Desert ecosystem (c) Grass land ecosystem (d) Pond ecosystem
- (7).....reduces noise and environment pollution.
(a) Forest (b) Land (c) Water (d) Sun
- (8) Desert thron forest is found in :
(a) Anand (b) Saurashtra (c) Valsad (d) Non of these
- (9) Chlorella living in the gastrodermal cells of Hydra is an example of ?
(a) Zooxanthella (b) Mycorrhiza (c) Zoochlorella (d) Parasite
- (10) Which one of the following is an insectivorous plant ?
(a) Monotropa (b) Viscum (c) Santalum (d) Drosera

- Q. 2 Answer in short (attempt any ten).** **20**
- (1) What is Lithosphere ?
 - (2) Define : Biosphere.
 - (3) Explain in brief : Troposphere.
 - (4) What is trophic level and which trophic level is occupied by green plants ?
 - (5) What is the function of decomposers ?
 - (6) Define : Ecosystem.
 - (7) What are the effects of deforestation?
 - (8) Enlist any four types of forests in Gujarat.
 - (9) Give the names of any two renewable natural resources.
 - (10) Differentiate between total and partial parasites.
 - (11) Define symbiosis, give an example.
 - (12) What is antibiosis?

- Q. 3 (a) Write the importance of atmosphere.** **05**
(b) Differentiate between crust and mantle . **05**

OR

- Q. 3 (a) Write the importance of Biosphere.** **05**
(b) Explain carbon cycle in brief. **05**
- Q. 4 Describe the structure of forest ecosystem.** **10**

OR

- Q. 4 Give a brief account of ecological pyramid of number and pyramid of biomass with the help of suitable diagrams.** **10**

- Q. 5 (a) What are the methods of conservation of water resources?** **05**
(b) Write a note on the benefits and problems of Dam. **05**

OR

- Q. 5 Write short notes on :**
- (a) What are the causes of deforestation ? **05**
 - (b) What are the uses of forests to human society ? **05**

- Q. 6 (a) Write a note on lianas.** **04**
(b) Write a note on parasitism. **06**

OR

- Q. 6 (a) Differentiate between commensalism and mutualism.** **06**
(b) Write a note on mycorrhizae. **04**

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