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Seat No. _____

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SARDAR PATEL UNIVERSITY
B.Sc., 5th Semester Exam, November-2021
BOTANY-US05CBOT23
(Plant Ecology and Phytogeography)

Date- 25/11/2021

Day- Thursday

Marks-70

Time-3.00-5.00 p.m.

Q-1 Multiple Choice Questions.

(10)

- (i) The importance of ecosystem is in _____.
(a)cycling of materials (b)flow of energy (c)both (a)&(b) (d)none
- (ii) If all the green plants were to disappear from the soil _____.
(a)all the animals will die (b)only omnivores will die
(c)only herbivores will die (d)it will not matter to any animal
- (iii) The term ecosystem was coined by _____.
(a)Reiter (b)Odum (c)Tansley (d)Ernst Haeckel
- (iv) Plant such as Rhizophora and Avicinia are examples of _____.
(a)mesophytes (b)hydrophytes (c)xerophytes (d)halophytes
- (v) _____ are the three states of water on earth _____.
(a)gas, steam & vapor (b)ground water, oceans & ice
(c)liquid water, freeze water & water vapor (d)lakes, oceans & rivers
- (vi) _____ is not a type of precipitation.
(a)ocean (b)snow (c)hail (d)rain
- (vii) In every succession the habitat of climax community is _____.
(a)xeric (b)mesic (c)humid (d)aquatic
- (viii) The development of a bare area without any life form is called _____.
(a)ecesis (b)sere (c)nudation (d)reaction
- (ix) India have _____ biogeographic division.
(a)8 (b)10 (c)6 (d)5
- (x) Tropical rain forests grow well in area receiving _____ rainfall.
(a)100 cm (b)70cm (c)150cm (d)200cm

Q-2 Fill in the blanks and True or False

(08)

- (i) A good soil is that which _____. (Allows the water to percolate slowly into it/holds whole of the water entering it)
- (ii) Soil particles arranged in order of increasing size are clay-silt-sand. (True/ False)
- (iii) Succulents are likely to be found in _____. (deserts/ rain forests)
- (iv) Sunken stomata are found in the leaves of Nerium. (True/ False)
- (v) The pyramids of numbers in grassland eco-system will be _____. (irregular/upright)
- (vi) First group of organisms to settle in a bare / sterile area is a pioneer community. (True/False)
- (vii) _____ part of Himalayas covered with dense forest. (Southern/Western)
- (viii) Hery Hess is the person credited with developing the theory of Continental drift. (True/ False)

Q-3 Attempt any ten short answer questions.

(10×2=20)

- (i) Define: Soil-profile.
- (ii) What is food-chain?
- (iii) Explain: Synecology.
- (iv) Name different types of water present in soil.
- (v) Write any four adaptations of plants.
- (vi) What is the difference between rain and snow?
- (vii) What is stratification?
- (viii) Differentiate between abundance and density.
- (ix) Name the synthetic characters of biotic community.
- (x) Write the characteristics of mangrove forests.
- (xi) What is a biome?
- (xii) Write about endemism.



Q-4 Attempt any four long answer questions.

(4×8=32)

- (i) Write about: Soil-formation.
- (ii) Explain: Levels of organization in ecosystem.
- (iii) Write a brief note on- Light.
- (iv) Explain: Nitrogen- cycle.
- (v) Explain- Hydrological-cycle.
- (vi) Write in brief: Ecological Pyramids.
- (vii) Describe: Theory of tolerance.
- (viii) Write brief description of major terrestrial biomes.

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