

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

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SARDAR PATEL UNIVERSITY

B.Sc.5<sup>th</sup> SEMESTER, BOTANY US05CBOT23

Plant Ecology and Phytogeography

Date- 28/12/2020

Marks- 70

Monday

Time- 9.00 - 4.00 p.m.

Q-1 Multiple Choice Questions.

(10)

- (1) The science dealing with soil is called\_\_\_\_\_.
- (a) aerology                      (b) pedology                      (c) geology                      (d) palaentology
- (2) The study of interactions between living organisms and environment is called\_\_\_\_\_.
- (a) ecosystem                      (b) phytogeography                      (c) ecology                      (d) phytosociology
- (3) The driving force of the ecosystem is\_\_\_\_\_.
- (a) biomass                      (b) carbohydrates in plants                      (c) producer                      (d) solar energy
- (4) What is another name for rain, sleet and hail?
- (a) precipitation                      (b) evaporation                      (c) condensation                      (d) eutriphication
- (5) Sun loving plants are known as\_\_\_\_\_.
- (a) halophytes                      (b) heliophytes                      (c) xerophytes                      (d) sciophytes
- (6) The habitat of a population is the\_\_\_\_\_.
- (a) set of conditions and resources it uses                      (b) geographic area it covers
- (c) place where it lives                      (d) set of interactions it has with other population
- (7) The plants occurring together with a similar ecology in definite strata are called\_\_\_\_\_.
- (a) periodicity                      (b) stratification                      (c) floristic                      (d) vitality
- (8) The pioneers in xeric succession is the\_\_\_\_\_.
- (a) crustose lichen                      (b) mosses                      (c) foliose lichen                      (d) shrubs
- (9) Who is the person credited with developing the theory of Continental drift?
- (a) Newton                      (b) Alfred Wegner                      (c) Galileo                      (d) Hary Hess
- (10) Identify the mis-matched pair.
- (a) Tundra- permafrost                      (b) Savanna- acacia trees
- (c) Coniferous forest- ever green trees                      (d) Prairie- epiphytes

[1]

(P.T.O.)

**Q-2 Fill in the blanks and True-False.**

(08)

- (1) Soil- particles arranged in order of increasing size are\_\_\_\_\_.
- (2) The repeated movement of water between Earth's surface and the atmosphere is called\_\_\_\_\_.
- (3)The planktonic forms of plants are\_\_\_\_\_.
- (4) \_\_\_\_\_ is the part of India which has ever-green plants.
- (5) Plants absorb capillary water from the soil. (True/ False)
- (6) Ocean is the last storage location for melted snow. (True/ False)
- (7) In every succession the habitat of climax community is aquatic. (True/ False)
- (8) Gujarat has the maximum percentage of mangrove in the country. (True/ False)

**Q-3 Short answer questions. (Attempt any ten)**

(20)

- (1) Explain- Weathering.
- (2) How many levels of organization in ecosystem?
- (3) Define- Homeostasis.
- (4) Name the types of precipitation.
- (5) Explain- Hydrological cycle.
- (6) What is the effect of light on growth and development of plants?
- (7) Differentiate - Habitat and Niche.
- (8) What is trophic level?
- (9) Explain- Nudation.
- (10) Write objects of phytogeography.
- (11) Explain the types of endemics.
- (12) What are the characteristics of tundra biomes.

**Q-4 Long answer questions (Attempt any four).**

(8 ×4 =32)

- (1) Write a note on - Soil-profile.
- (2) Explain- Inter-relationships between the living world and environment.
- (3) Give brief account on- Wind and Fire.
- (4) Explain atmospheric moisture (humidity).
- (5) Write an essay on- Succession.
- (6) Explain- Carbon- cycle.
- (7)Write in brief- Continental drift.
- (8) Name the phytogeographical division of India. Explain any four.