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SEAT No. _____

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SARDAR PATEL UNIVERSITY

B.Sc. (SEM-6) EXAMINATIONS (BOTANY)

WEDNESDAY, 27TH MARCH-2019

US06CBOT02-(MARKS-70) 10-00 AM TO 1-00PM

Diversity, Systematics of Angiosperms and Ethno botany)

Q-1 Multiple Choice Questions.

(10)

(1) The original specimen designated by the author on which the description of a taxa is based is called as _____.

- (a) Lectotype (b) Syntype (c) Holotype (d) all of these

(2) Phylogenetic classifications are developed based on:

- (a) Natural relationships (b) Morphological similarities
(c) Evolutionary relationships (d) all of these

(3) Which one of the following is usually a binomial?

- (a) England (b) Russia (c) India (d) USA

(4) Convergent characters are resulted due to:

- (a) closely related species adapted to similar habitat
(b) Distantly related species adapted to similar habitat
(c) closely related species adapted to different habitats
(d) Distantly related species adapted to different habitats.

(5) The term Polypetalae has been introduced by _____.

- (a) Engler and Prantal (b) core (c) Hytchinson (d) Bentham and Hooker

(6) Which one of the following is a primitive character?

- (a) apocarpous pistil (b) infinite stamens (c) trimerous flower (d) all of these

(7) Which of the following assigns threatened status to the endangered species?

- (a) ICN (b) IUCN (c) IAPT (d) ICBN

(8) Which of the following is the major threat to the loss of plant diversity?

- (a) climate change (b) habitat destruction (c) mining (d) forest fires

(9) Study of past and present inter-relationship between human and plants is _____.

- (a) pharmacology (b) paleobotany (c) ethnobotany (d) none of these

(10) Who is credited to coin the word ethnobotany?

- (a) Evans (b) Colines (c) Jones (d) Harshberger

[P.T.O.]

Q-2 Answer the following (any ten).

(20)

- (1) What is the significance of binomial nomenclature?
- (2) Why herbaria are required in biological research?
- (3) Discuss the advantages of studying plant systematic over plant taxonomy.
- (4) Enlist any three endangered species of plants.
- (5) How national parks help in conservation of phytodiversity?
- (6) What is Taximetry.
- (7) Define-Flora.
- (8) Define-Homology. Write any two examples of plants.
- (9) What is crown fire?
- (10) How will you prepare a herbarium of succulent plants?
- (11) Write about ethnobotany.
- (12) Can palaeo-botany help ethnobotany?

Q-3 State how morphology and anatomy contribute significantly to plant systematic. (10)

OR

Q-3 Write short notes on: (a) Author citation. (04)
(b) Rules of nomenclature. (06)

Q-4 Enlist the primitive and advance characters of plants considered in Engler & Prantl's classification. (10)

OR

Q-4 Write the outline classification of Angiosperms proposed by Bentham and Hooker. (10)

Q-5 Describe some of the important methods of plant conservation. (10)

OR

Q-5 (a) Enlist all possible reasons of the destruction of a forest. (05)
(b) Describe the causes of loss of diversity. (05)

Q-6 Write about- Role of ethnobotany in conservation of native plant genetic resources. (10)

OR

Q-6 Describe the role of ethnobotany in health care. (10)

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