

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

No of Printed Pages:- 02

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SARDAR PATEL UNIVERSITY  
T.Y.B.Sc (IV SEMESTER) EXAMINATION  
29<sup>th</sup> DECEMBER, 2020  
US05CBOT24 (Plant Systematics) 2.00 pm To 4.00 pm

TOTAL MARKS :-70

**Q-1 Multiple Choice Questions**

(10)

- (1) Taxonomy deals with \_\_\_\_\_  
(a) Nomenclature (b) Identification (c) Classification (d) All of the above.
- (2) A branch deals with antigen-antibody interaction known \_\_\_\_\_  
(a) Phycology (b) Serology (c) Mycology (d) None of these
- (3) Botanical gardens have \_\_\_\_\_  
(a) Living and Preserved Plants (b) Collection of living Plants  
(c) Living Plants and Animals (d) Preserved Plants Specimen
- (4) What is the term given to a duplicate specimen of original type?  
(a) Paratype (b) Isotype (c) Holotype (d) Neotype
- (5) Alternative name of Umbelliferae family is \_\_\_\_\_  
(a) Brassicaceae (b) Poaceae (c) Fabaceae (d) Apiaceae
- (6) Binomial nomenclature concept given by \_\_\_\_\_  
(a) Adanson (b) Theophrastus (c) Linnaeus (d) None
- (7) Which type of classification given by Engler and Prantl ?  
(a) Natural (b) Artificial (c) Phylogenetic (d) None
- (8) Who is considered as father of genus concept?  
(a) Adanson (b) Huchinson (c) Tournefort (d) Linnaeus
- (9) Beetle pollinated flowers are \_\_\_\_\_  
(a) White colour (b) Edible petals (c) Fruity odour (d) All of these
- (10) Which of the following is the primitive angiosperm character?  
(a) Simple leaves (b) Woody plants (c) Compound leaves (d) Both (a) & (b)



[1]

(P.T.O.)

**Q-2 Do as directed.**

(08)

- (1) Palynology deals with the study of \_\_\_\_\_
- (2) Indented key is type of polyclave keys. (True/ False)
- (3) Alternative name of Cruciferae family is \_\_\_\_\_
- (4) Typological species concept based on phenotypic characteristics. (True/ False)
- (5) \_\_\_\_\_ type of classification given by Bentham and Hooker.
- (6) Engler and Prantl classified \_\_\_\_\_ number of families.
- (7) When organisms live in similar environments, Convergent evolution occur. (True / False)
- (8) \_\_\_\_\_ coloured flower is not visited by bee.

**Q-3 Answer the following in short (Any Ten)**

(20)

- (1) Define: Polynology
- (2) What is flora?
- (3) What is field inventory?
- (4) Define: Biological species concept.
- (5) What is taxonomic species concept?
- (6) Give the full form of CNH and ICBN
- (7) Define the term classification.
- (8) What is Natural classification?
- (9) What is cladistics?
- (10) What do you mean by homology?
- (11) Define: Analogy
- (12) What is polyphyletic group?



**Q-4 Answer the following. (ANY FOUR)**

(32)

- (1) Write note on taxonomic evidences from palynology.
- (2) Write note on functions of herbaria.
- (3) Describe the principles of ICBN.
- (4) Write note on species concept in brief.
- (5) Describe Bentham and Hooker classification system.
- (6) Describe plant classification approach.
- (7) Write about co-evolution of Anigiosperm & animals.
- (8) Write a note on monophyly, paraphyly and polyphyly concept in brief.

X

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