

Seat No: _____

[145]

No of Printed Pages: 02



SARDAR PATEL UNIVERSITY
T.Y.B.Sc (V SEMESTER) EXAMINATION
26 NOVEMBER , 2021
US05CBOT24 (Plant Systematics) 3.00 pm To 5.00 pm
26/11/21, Friday

TOTAL MARKS:70

Q-1 MULTIPLE CHOICE QUESTIONS

(10)

- (1)The term 'Taxonomy' was coined by _____
(a)AP De Candolle (b)Turnill (c) Linnaeus (d)Julian Huxley
- (2)Crystals reported in which of the following family _____
(a)Cactaceae (b)Malvaceae (c)Rubiaceae (d) Fabaceae
- (3)Indian botanical garden situated in _____
(a)Bangalore (b)Kolkata (c) Jaipur (d) Darjeeling
- (4)Alternative name of compositae family is _____
(a)Malvaceae (b)Brassicaceae (c)Asteraceae (d)Poaceae
- (5)Binomial nomenclature concept given by _____
(a)Bauhin (b)Theophrastus (c)Linnaeus (d)Adanson
- (6)What is correct?
(a)helianthus annuus (b)helianthus Annuus
(c)Helianthus annuus (d)HELIANTHUS ANNUUS
- (7)Phylogeny is the study of _____
(a)Evolution Of Plants (b)Origin and development of Plants
(c)Origin and development of Man (d)Physiology Of Plants
- (8)Classification given by Linnaeus is based on _____
(a)Artificial system (b) Natural system (c) Asexual system (d) Phylogenetic system
- (9)Beetles pollinated flowers are _____
(a)White colour (b) Edible petals (c) Fruity odour (d) All of these
- (10)Which of the following is example of co-volution?
(a)Flowering plants-Pollinators (b)Pine-Squirrel (c)Acacia- Acacia ants (d)All of these



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Q-2 Do as directed.

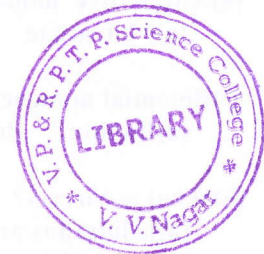
(08)

- (1) Indented key is type of polyclave key. (True/ False)
- (2) The Royal Botanical garden is largest Botanical garden of the world. (True/ False)
- (3) Suffix of the Family is _____ (aceae/ ales)
- (4) Alternative name of Gramineae family is _____.
- (5) Tournfort was considered as 'Father of genus concept'. (True/ False)
- (6) Engler and Prantl classified _____ families of flowering plants. (303 / 302)
- (7) _____ coloured flower is not visited by bee. (Blue/ Red)
- (8) Potato and Radish are example of Homologous organs. (True/ False)

Q-3 Answer the following in short (ANY TEN)

(20)

- (1) What is Plant Systematic?
- (2) What is herbarium?
- (3) What do you mean by Monograph?
- (4) Define:-Biological Species Concept
- (5) What is Typification?
- (6) What do you mean by Taxonomic hierarchy?
- (7) What is cladogram?
- (8) Define:-Phenestics
- (9) What is phylogenetic classification?
- (10) Define:-Parallism
- (11) Write the function of Clade.
- (12) Define the term Paraphyletic.



Q-4 Answer the following (ANY FOUR)

(32)

- (1) Write note on Multi-access key.
- (2) Explain cytology as taxonomic evidence in brief.
- (3) Write note on principle of priority and rejection of names.
- (4) Explain the principles of ICBN.
- (5) Describe Bentham and Hooker System of Classification.
- (6) Write a note on contribution of Linnaeus in plant taxonomy.
- (7) Write a brief note on co-evolution of animals and angiosperms.
- (8) Discuss: Homology and Analogy

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