

India's Number 1 Education App

BIOLOGY

BOOKS - SARAS PUBLICATION

TAXONOMY AND SYSTEMATIC BOTANY

Exercise

- **1.** Specimen derived from non-original collection serves as the nomenclatural type, when original specimen is missing. It is known as.
 - A. Holotype
 - B. Neotype
 - C. Isotype
 - D. Paratype

0	Watch Video Solution	
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2. Phylogenetic classification is the most favoured classification because it
reflects

A. Comparative Anatomy

B. Number of flowers produced

C. Comparative cytology

D. Evolutionary relationships.

Answer:



3. The taxonomy which involves the similarities and dissimilarities among the immune system of different taxa is termed as

A. Chemotaxonomy

B. Molecular systematics	
C. Serotaxonomy	
D. Numerical taxonomy	
Answer:	
Watch Video Solution	
4. Which of the following is a flowering plant with nodules containing	
filamentous nitrogen fixing micro-organisms?	
A. Crotalaria Juncea	
B. Cycas revoluta	
C. Cicer arietinum	
D. Casuarina equisetifolia	
Answer:	
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5. Flowers are zygomorphic in	
A. Ceropegia	
B. Thevetia	
C. Datura	
D. Solanum	
Answer:	
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6. Name the organization which provides rules for naming animals	
A. ICZN	
B. ICN	
C. ICBN	
D. IBN	



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7. Select the correct order

A.

$$Class
ightarrow k \in gdom
ightarrow phylum
ightarrow ext{ or } der
ightarrow \ \geq
u s
ightarrow family
ightarrow s$$

B.

$$Family
ightarrow k \in gdom
ightarrow ext{ or } der
ightarrow class
ightarrow ext{ } \geq
u s
ightarrow species
ightarrow position states for the second seco$$

C.

$$Species
ightarrow family
ightarrow \ \geq
u s
ightarrow \ ext{or} \ der
ightarrow phylum
ightarrow k \in gdom
ightarrow$$

D.

$$K \in gdom
ightarrow phylum
ightarrow class
ightarrow ext{ or } der
ightarrow family
ightarrow r \geq
u s
ightarrow$$

Answer:



8. What is the term given to a duplicate specimen of original type?	
A. Lectotype	
B. Holotuype	
C. Isotype	
D. Neotype	
Answer:	
Watch Video Solution	
Watch Video Solution	
Watch Video Solution 9. Which among the following is the smallest category?	
9. Which among the following is the smallest category?	
9. Which among the following is the smallest category? A. Order	

Answer: Watch Video Solution **10.** Species plantarum was written by___ A. Linnaeus B. Hutchinson C. John Ray D. Benthem **Answer:** Watch Video Solution 11. Which is the basic unit of classification? A. Kingdom

B. Division
C. Species
D. Order
Answer:
Watch Video Solution
12. ICBN is associated with nomenclature of
A. Animals
B. Plants
C. Bacteria
D. Virus
Answer:
Watch Video Solution

13. The largest botanical garden is in	
A. New York Botanical garden, USA	
B. Royal Botanical garden, Kew	
C. Royal Botanical garden, Sydeny	
D. New York Botanical garden	
Answer:	
Watch Video Solution	
14. A place of collection of dried plant specimen is	
14. A place of collection of dried plant specimen is A. Arboretum	
A. Arboretum	
A. Arboretum B. Botanical garden	

Answer: Watch Video Solution 15. One of the largest herbarium is located in A. Kew B. Geneva C. Berlin D. Sweden **Answer:** Watch Video Solution 16. Natural system of classification was proposed by A. Bentham and Hooker

B. Whittaker C. Engler and Prantl D. Caroulous Linnaeus **Answer: Watch Video Solution** 17. Holotype is

- A. Duplicate of nomenclature type
- B. Specimen selected from orginal when nomenclature type is missing
- C. Specimen orginally cited by the author
- D. Specimen derived form non orginal collection.



- **18.** Chemotaxonomoy is connected with
 - A. Study of chemicals available in plants
 - B. Study of life forms and their relationship.
 - C. Study of serological reaction
 - D. Study of molecular phylogenetics



- **19.** Which of the following classification is a sexual system of classification?
 - A. Natural System
 - B. Artificial System
 - C. Phlogenetic system
 - D. Natural selection

Watch Video Solution 20. Genera plantarum of Bentham and Hooker was published in A. A single volume B. Two volume C. Three volume D. Four volume **Answer: Watch Video Solution** 21. Plants having flowers with free petals are place under A. Gamopetalae

- B. Polypetalae
 C. Monochlamydeae
- D. Dischlamydeae



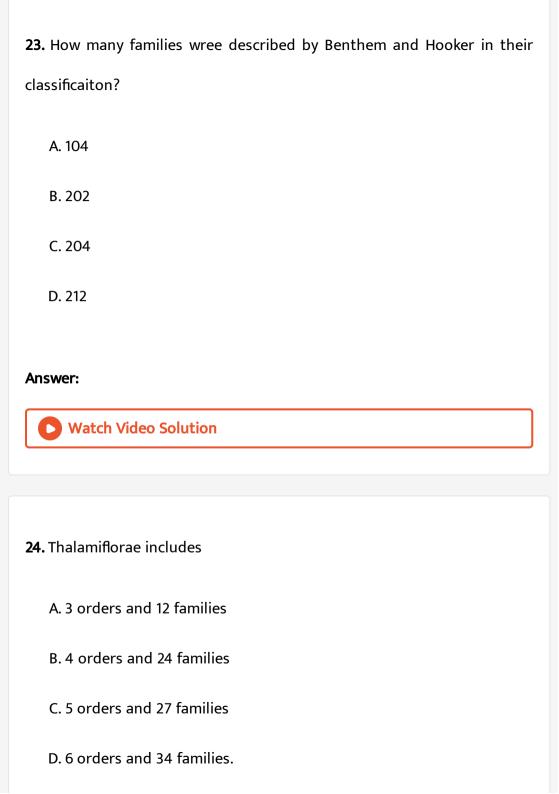
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22. Inferae includes

- A. 3 orders and 9 families
- B. 4 orders and 34 families
- C. 6 orders and 23 families.
- D. 8 orders and 27 families.

Answer:





Answer: **Watch Video Solution** 25. Which one of the following series includes the epigynous flowers? A. Inferae B. Thalamiflorae C. Disciflorae D. Heteromerae Answer: **Watch Video Solution** 26. Polypetalae, Gamospetalae and monochlamydae are subclasses of A. Dicotyledonae

B. Monocotyledonae C. Monochlamydeae D. Gymnospermae **Answer: Watch Video Solution** 27. Flower of Fabaceae is A. Complete, Actinomorphic, trimerous B. Complete, zygomorphic, Pentamerous C. Incompete, zygomorphic, Trimerous D. Incomplete, Actinomorphic, Pentamerous. Answer:

28. Name the family having (9) +1 arrangement of stamens.	
A. Solanaceae	
B. Asteraceae	
C. Liliaceae	
D. Fabaceae	
Answer:	
Watch Video Solution	
29. Family Fabaceae belong to series	
A. Inferae	
B. Thalamiflorae	
C. Calyciflorae	
D. Disciflorae	

Answer: Watch Video Solution 30. Potato belongs to the family A. Solanaceae B. Compositae C. Graminae D. Cruciferae **Answer:** Watch Video Solution 31. Inflorescence in family Fabceae is A. Cymose

B. Racemose
C. Compound
D. Capitulam
Answer:
Watch Video Solution
32. Leguminous plants possess
A. Napiform roots
B. Nodulated roots
C. Tuberous roots
D. Fusiform roots
Answer:
Watch Video Solution

33. Plants contain naked seeds come under the classification.	
A. Monocotyledonae	
B. Dicotyledonae	
C. Gymnospermae	
D. Polypetalae	
Answer:	
Watch Video Solution	
34. Father of barcoding is	
A. Adolph engler	
B. Paul Hebert	
C. Arthur Cronquist	
D. Karl A prantl	



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35. Modern taxonomy is called

A. $\alpha - taxonomy$

 ${\rm B.}\,\beta-t axonomy$

 $\mathsf{C.}\,\Omega-taxonomy$

D. $\mu - taxonomy$

Answer:



Watch Video Solution

36. Botanical name of tomato

A. Solanum tuberosum

- B. Solanum melongena

 C. Lycopersicon trilobatum

 D. Lycoperscicon esculentum

 Answer:

 Watch Video Solution
- **37.** lpha taxonomy deals with
 - A. Classical taxonomy
 - B. Chemotaxonomy
 - C. Phylogeny
 - D. Experimental taxonomy



38. Clasical taxonomy is also termed

- A. $\beta taxonomy$
- **B.** Systematics
- C. Descriptive taxonomy
- D. Experimental taxonomy

Answer:



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39. Which of the following suffixes used for units of classification in plants indicate a taxonomic category of 'family'?

- A. Ales
- B. Ineae
- C. Aceae
- D. Eae



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- **40.** Genus represents
 - A. An individual plant or animal
 - B. A collection of plants or animalas
 - C. Group of closely related species of plants or animals
 - D. none of these.

Answer:



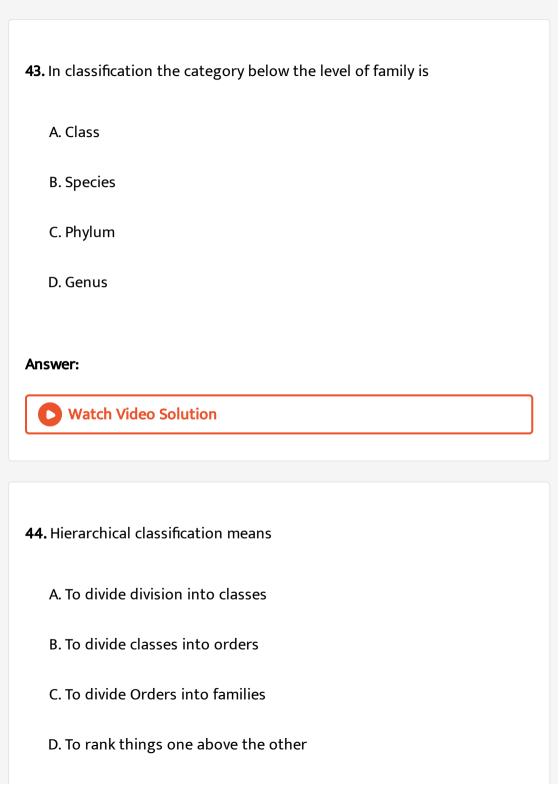
41. Match the following and choose the correct option:-

A - Family - i) tuberosum
B - kingdom - ii) Polymoniales
C - Order - iii) Solanum
D - Species - iv) Plantae
E - Genus - v) Solanaceae



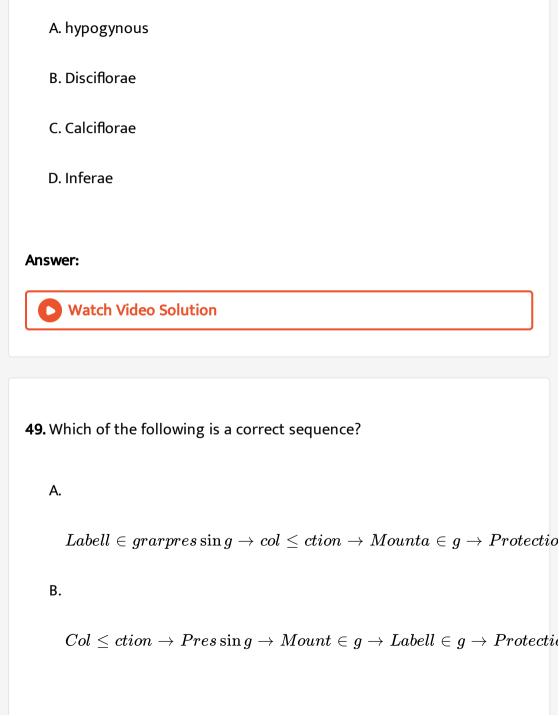
- 42. Two words comprising the binomial nomenclature are
 - A. Family & genus
 - B. Order & Family
 - C. Genus & Species
 - D. Genus & tribe





Answer: Watch Video Solution 45. A group of interconnected genera is called A. Family B. Order C. Phylum D. Class **Answer:** Watch Video Solution 46. The suffix phyta indicates A. Family

B. Order
C. Class
D. Division
Answer:
Watch Video Solution
47. Plants having flowers with cup shaped thalamus included in the series.
A. Thalamiflorae
B. Disciflorae
C. Calcyciflorae
D. Inferae
Answer:
Watch Video Solution



48. Thalamus is dome or conical shape in

50. Flowers with more than two carpel are included in the series

- A. Bicarpellatae
- B. Calciflorae
- C. Thalamiflorae
- D. Heteromerae

Answer:

Natch Video Solution

51. The out come of a cladistic analysis is
Watch Video Solution
52. Fruits develop and matures from underground is
Watch Video Solution
53. Asexual reproductive stage of fungus is called
Watch Video Solution
54. Sexual reproductive stage of fungus is called
Watch Video Solution

55. A fossil taxon is called Watch Video Solution 56. The taxonomy which involves the similarities and dissimilarities among the immune system of different taxa is termed as A. Chemotaxonomy B. Molecular systematics C. Serotaxonomy D. Numerical taxonomy Answer: **Watch Video Solution** 57. Which of the following is a flowering plant with nodules containing filamentous nitrogen fixing micro-organisms?

A. Crotalaria juncea

B. Cycas revoluta

C. Cicer arietinum

D. Casuarina equisetifolia

Answer:



Watch Video Solution

58. Select the correct order

A.

В.

C.

 $Species
ightarrow Family
ightarrow Ge
u s
ightarrow Order
ightarrow Phylum
ightarrow K \in gdom
ightarrow Section (Section 1)$

 $Class
ightarrow K \in gdom
ightarrow Phylum
ightarrow Order
ightarrow Ge
u s
ightarrow Family
ightarrow K$

 $Family
ightarrow K \in gdom
ightarrow Order
ightarrow Class
ightarrow Ge
u s
ightarrow Species
ightarrow F$

D.

 $K \in gdom o Phylum o Class o Order o Family o Ge
u s o K$

Answer:



59. Plants having flowers with dome shaped thalamus included in the series

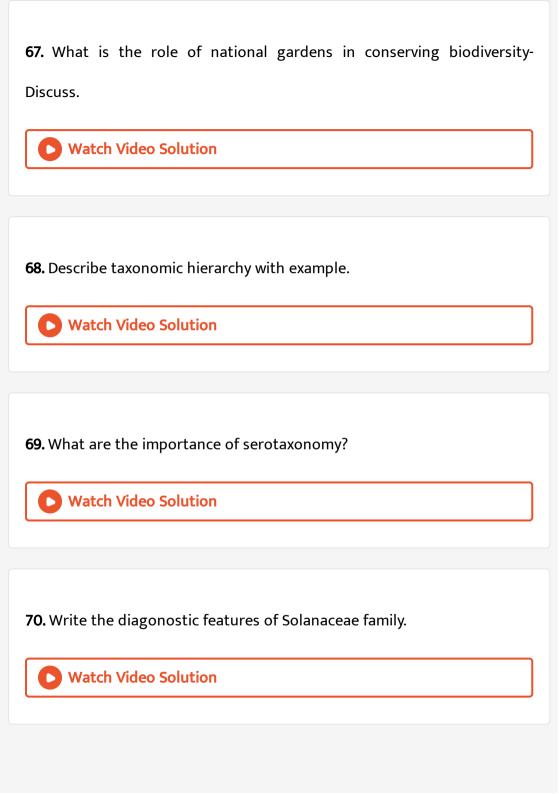
- A. Thalamiflorae
- B. Disciflorae
- C. Calyciflorae
- D. Inferae

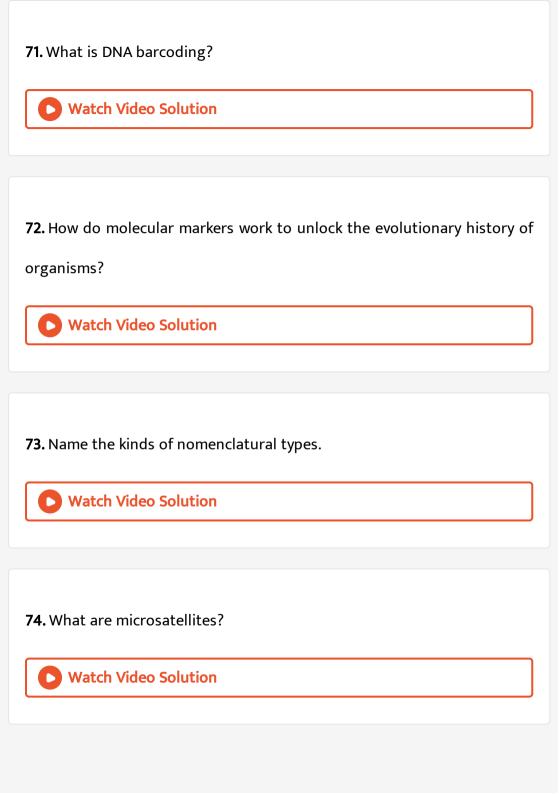
Answer:

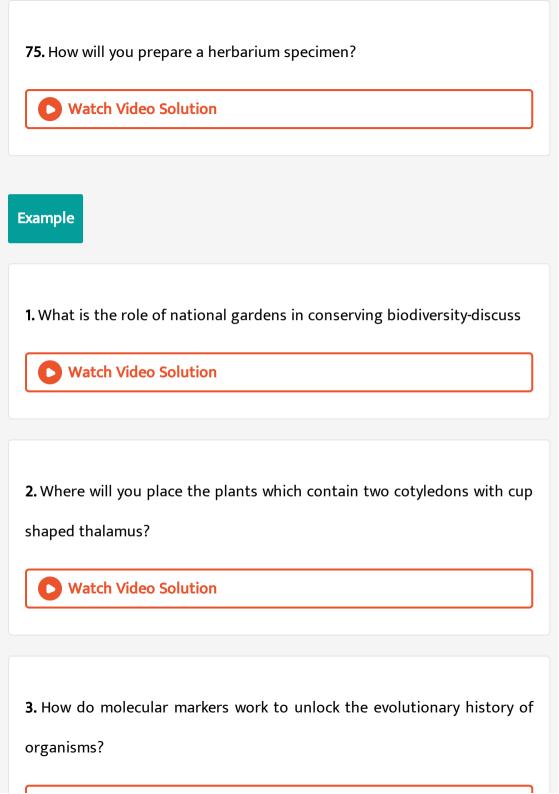


60. Flowers are zygomorphic in
A. Ceropegia
B. Thevetia
C. Datura
D. Solarium
Answer:
Watch Video Solution
61. Where will you place the plants which contain two cotyledons with cup
shaped thalamus?
Watch Video Solution
62. Give the floral characters of Clitoria ternatea.
Watch Video Solution

63. Define karyotaxonomy.
Watch Video Solution
64. What is cladistics?
Watch Video Solution
65. How many genera and species are found in Fabaceae?
Watch Video Solution
66. What are the aims of chemotaxonomy?
Watch Video Solution







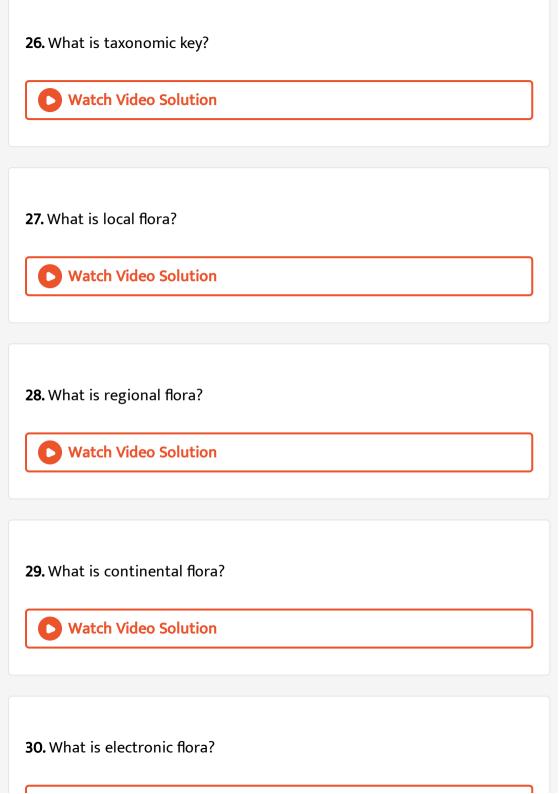
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4. Give the floral characters of Clitoria ternatea.
Watch Video Solution
5. How will you distinguish Solanaceae members from Liliaceae members?
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6. What are the uses of taxonomy?
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7. Define Taxonomy.
Watch Video Solution

8. Define systematics
Watch Video Solution
9. What is taxonomic hierarchy.
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10. What are the types of species?
Watch Video Solution
11. What is biological species?
Watch Video Solution
12. Defie morphological species.

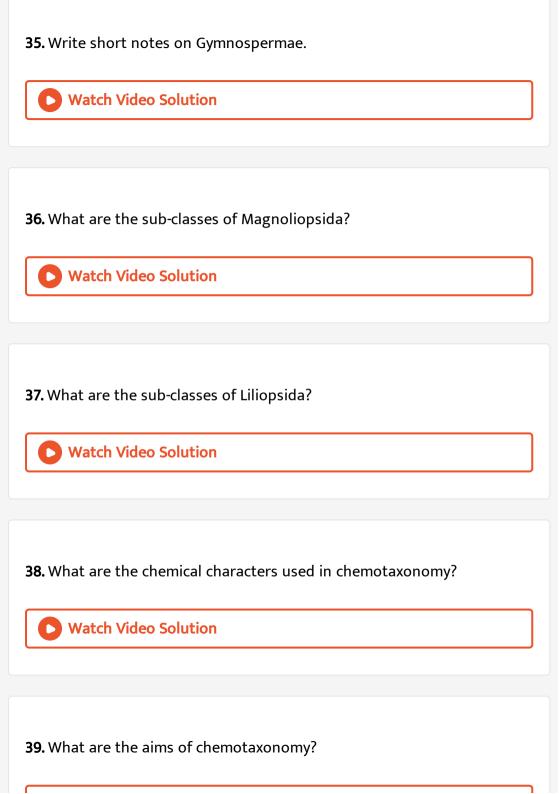
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13. What is pylogenetic species?
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14. What is Nomenclature?
Watch Video Solution
15. What is ICN?
Watch Video Solution
16. What is ICN?
Watch Video Solution

17. What is author citation?
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18. Mention four nomenclatural types.
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19. Mention four nomenclatural types.
Watch Video Solution
20. What is holotype?
Watch Video Solution
21. What is Lectotype?

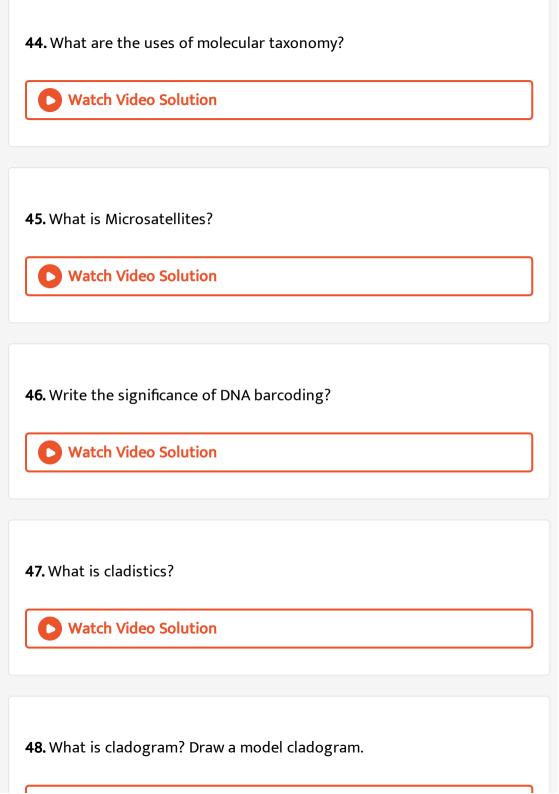
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22. What is syntype?
Watch Video Solution
23. What is neotype?
Watch Video Solution
24. What is paratype?
Watch Video Solution
25. What is epitype?
Watch Video Solution



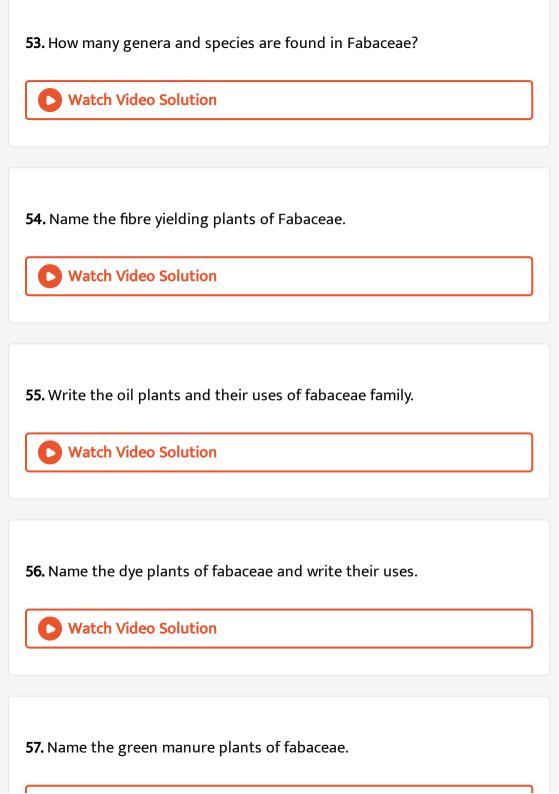
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31. What do you know about the national botanical garden, Lucknow?
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32. Define herbarium specimen.
Watch Video Solution
33. What ar the types of classification?
Watch Video Solution
34. What are the 3 major classes of natural system of classification?
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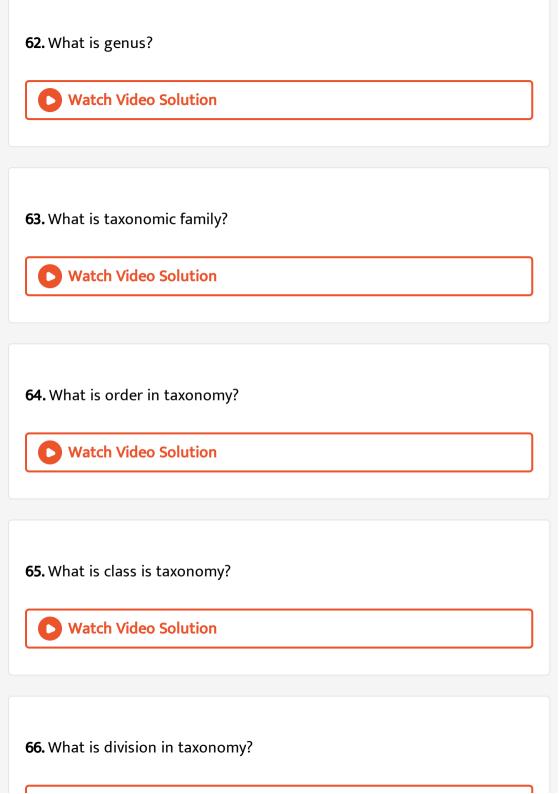
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40. What are the aims of chemotaxonomy?
Watch Video Solution
41. Define biosystematics.
Watch Video Solution
42. Define karyotaxonomy.
Watch Video Solution
43. What is serotaxonomy?
Watch Video Solution



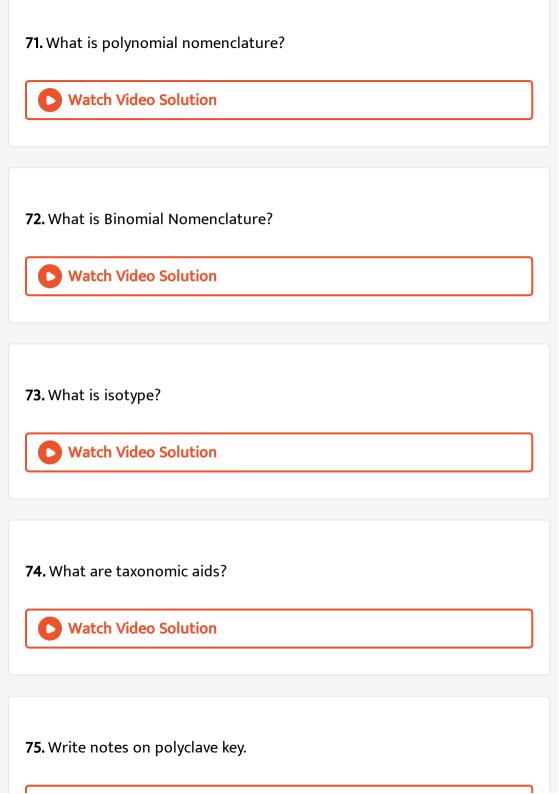
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49. What is monophyletic group?
Watch Video Solution
Watch video solution
50. What is polyphletic group?
Watch Video Solution
51. What is polyphletic group?
Watch Video Solution
52. What is cladistics?
Watch Video Solution



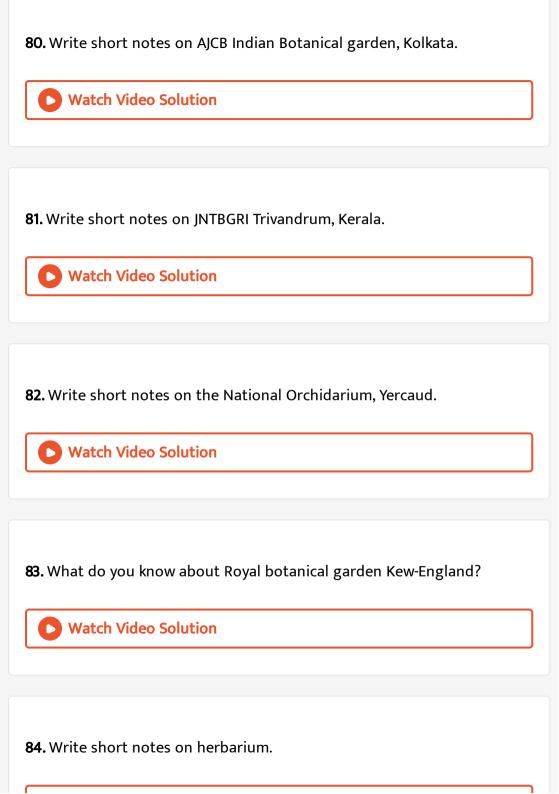
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58. Name any three ornamental plants of Fabaceae.
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59. What are the branches of botany?
Watch Video Solution
60. List the differences between taxonomy and systematics.
Watch Video Solution
61. What is species?
Watch Video Solution



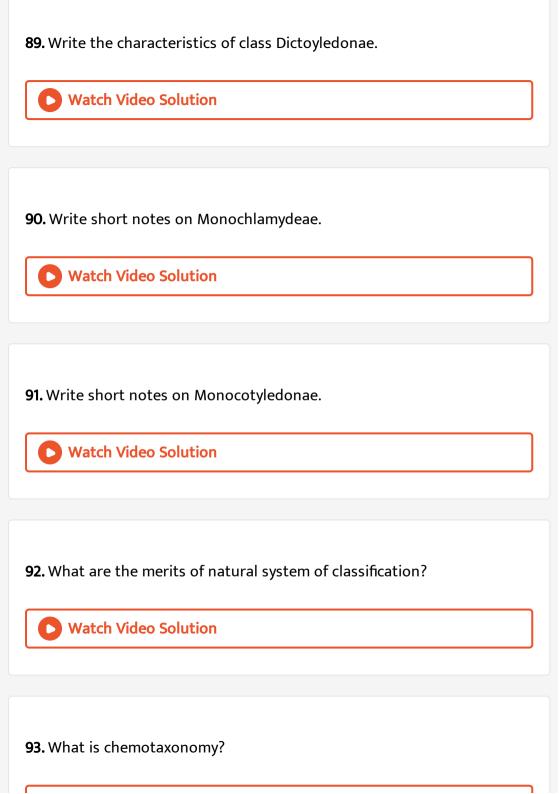
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67. What is kindgom in classification?
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68. Describe taxonomic hierarchy with example.
Watch Video Solution
69. List the characters of species.
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70. What is scientific name?
Watch Video Solution



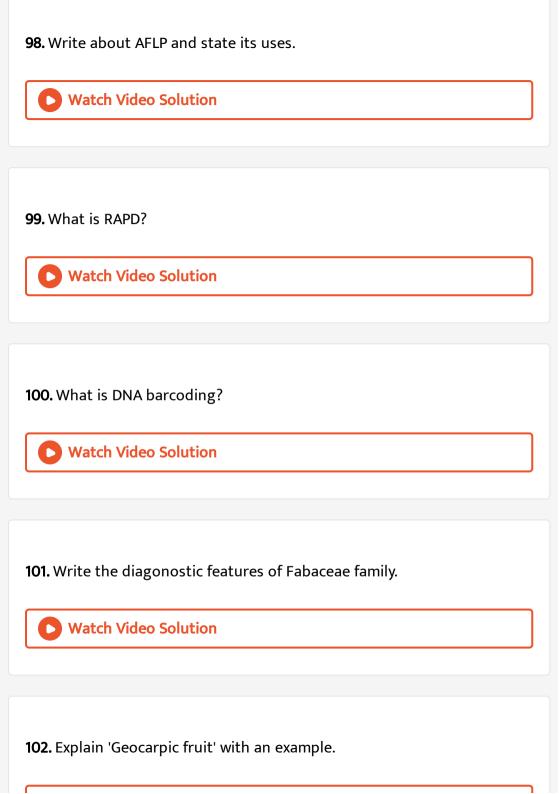
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76. What is flora?
Watch Video Solution
77. What is Monograph?
Watch Video Solution
78. What is meant by Catalogues?
Watch Video Solution
79. Define botanical garden.
Watch Video Solution



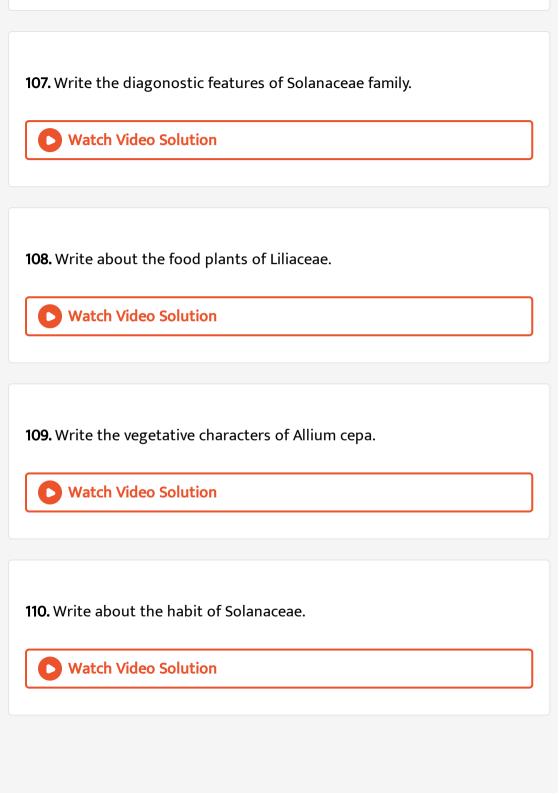
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85. What are the uses of herbarium.
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86. Give examples of International Botanical Gardens.
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87. What is the need for classification?
Watch Video Solution
88. What are the Demerits of Artificial system of classification?
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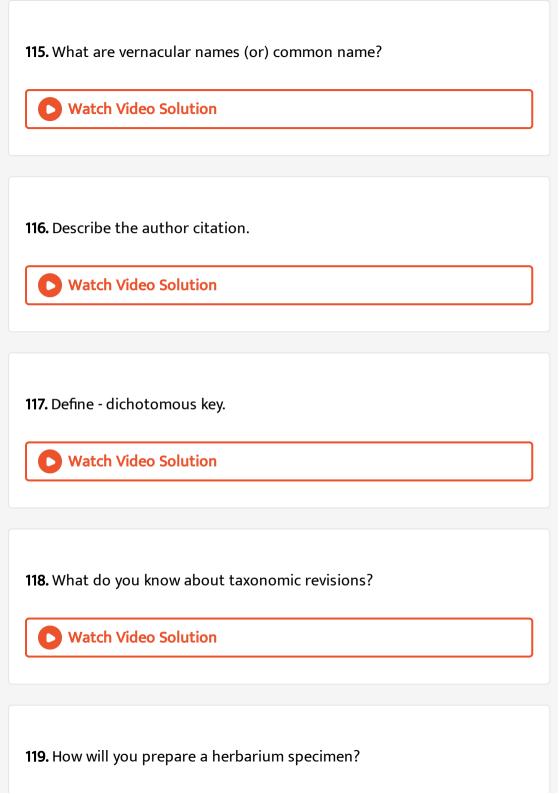
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94. Define biosystematics.
Watch Video Solution
95. What are the importance of erotaxonomy.
Watch Video Solution
96. What is molecular taxonomy?
Watch Video Solution
97. Write the significance of molecular taxonomy.
Watch Video Solution



Watch Video Solution
103. Name the food plans of fabaceae family and write their uses.
Watch Video Solution
104. Name the food plans of fabaceae family and write their uses.
Watch Video Solution
105. Name the timber plants of fabaceae family and write their uses.
Watch Video Solution
106. Name the medicinal plants of fabaceae and write the useful part and
their uses
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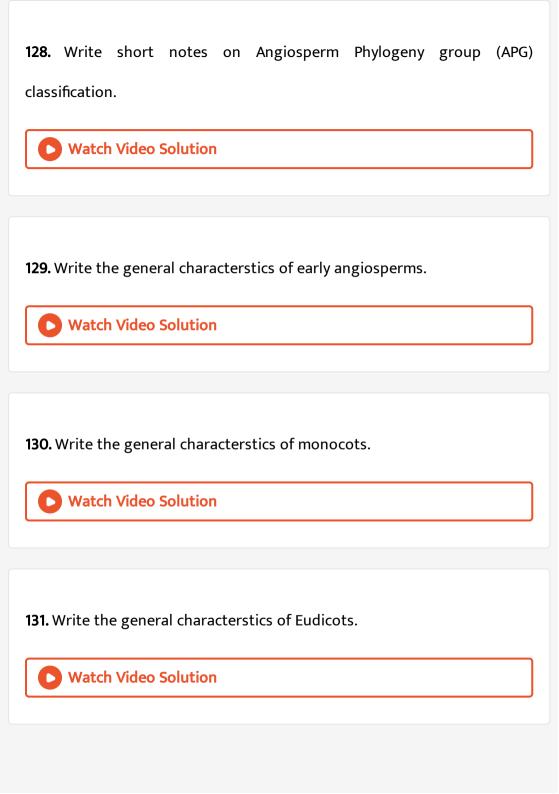


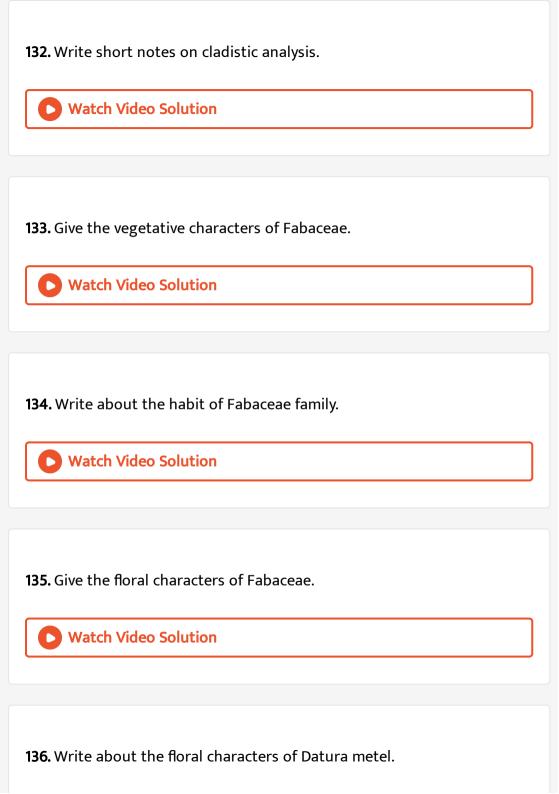
111. Name the ornametal plants of Solanaceae.
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112. Write the diagnostic features of Liliaceae.
Watch Video Solution
113. What are the principles of ICN?
Watch Video Solution
114. What are the changes implemented in 18th International Botanical congress?
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120. Write short notes on Kew garden.
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121. What do you know about Botanical Survey of India?
Watch Video Solution
122. Write few points about Biological classification.
Watch Video Solution
123. Write a brief note on the artificial system of classification.
Watch Video Solution

124. Write notes on subclass Polypetalae.
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125. Write short notes on gamopetalae.
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126. Write short notes on Adolph Engler
Watch Video Solution
127. Write short notes on Arthur Crongquist system of classification.
Watch Video Solution
Watch Video Solution
Watch Video Solution





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137. Give the vegetative characters of Datura metel.
Watch Video Solution
138. Write about food plants of Solanaceae.
Watch Video Solution
139. Descrine the Floral characters of Allium cepa with a neat floral diagram.
Watch Video Solution
140. Name any three ornamental plants of Liliaceae.
Watch Video Solution

141. Write the Binomials of any three medicinally useful plants in Liliaceae.



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