

BIOLOGY

NEET & AIIMS

MORPHOLOGY OF FLOWERING PLANTS

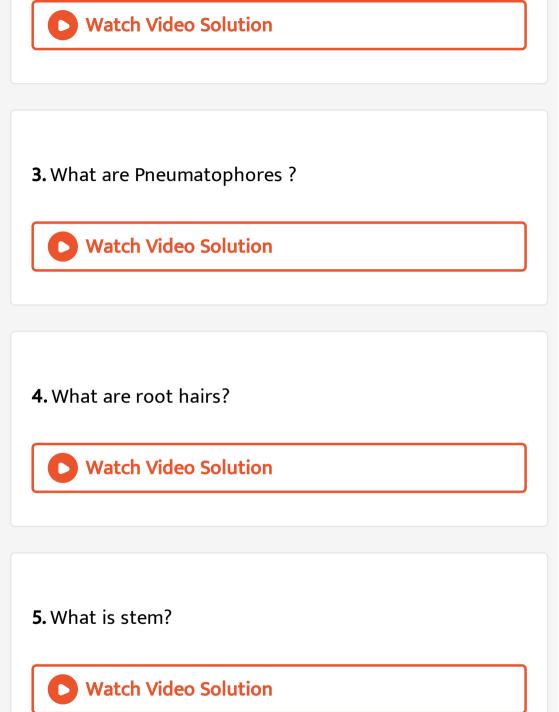


1. Name the different parts of a typical root

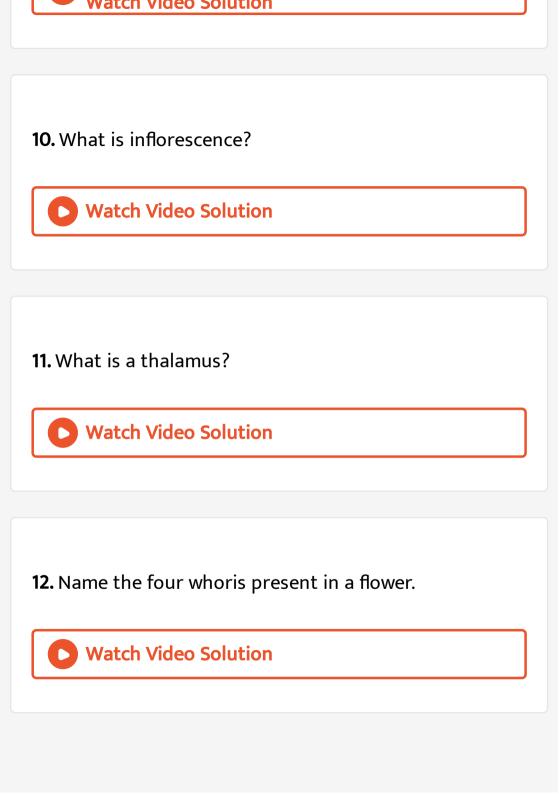


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2. What is fibrous root?



6. What are stolons? Give example.
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7. What are the main functions of a stem?
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8. What is a leaf?
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9. What is the function of petiole?
O Watch Video Calution



13. Distinguish between epipetalous and epiphyllous stamens.



14. What is staminode?



15. Define placentation.



16. What are parthenocarpic fruits?



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17. In maize seed, the outer covering of endosperm is proteinaceous and called as

(1) Scutellum (2) Pericarp (3) Aleurone layer (4) Coleoptile



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18. Give an account of the inflorescence seen in the members of Solanceae family.



19. Give the floral formula of the potato family.



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Exercise

1. Thick roots arising in Ficus to support heavy branches are called

A. Stilt roots

B. Prop roots

C. Assimilatory roots

D. Floating roots

Answer: B



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- **2.** In Amorphophallus and Crocus vegetative reproduction occurs by means of
 - A. Offset
 - B. Rhizome
 - C. Corm
 - D. Both (1) & (2)

Answer: C



3. Stem tendrils occur in
A. Cucumber
B. Watermelon
C. Pumpkin
D. All of these
Answer: D
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4. Thorn is a stem structure because it
A. Develops from stipule

- B. Arises from leaf directly
- C. Develops from axillary bud
- D. is structure of defence

Answer: C



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- **5.** A. Cells of root meristematic zone has dense cytoplasm.
- B. Chrysanthemum, Pineapple and jaseminum are examples of sucker. C. A fleshy bud is called bulbil. D. Root cap is absent in hydrohytes.

A. All are correct

B. All are correct, except B C. A & B are correct D. B & C are correct **Answer: A Watch Video Solution** 6. Reduced, discoid and underground stem is found in A. Ginger B. Turmeric C. Potato D. Onion

Answer: D



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- 7. Find odd one w.r.t. plants having green succulent stem
 - A. Opuntia
 - B. Euphorbia
 - C. Citrus
 - D. Both 1 and 2

Answer: C



8.	All	given	modification	belong	to	adventitious	roots
ex	сер	t					

- A. Reproductive root of Asparagus
- B. Storage roots of sweet potato
- C. Conical roots of carrot
- D. Prop roots of banyan tree

Answer: C



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9. Which of the following function is not performed by undergournd stem?

A. Reproduction
B. Assimilation
C. Perennation
D. Storage
Answer: B
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10. Bud associated with the underground stem of potato
is
A. Axillary
B. Apical

- C. Adventitious
- D. internodal

Answer: A



- 11. Leaf base expands into a sheath in
 - A. Grasses
 - B. Legumes
 - C. Prickly poppy
 - D. Mimosa

Answer: A



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12. Select and incorrect match:

- A. Uniphinnate leaf-Neem
- B. Unifoliate leaf-silk cotton tree
- C. Bipinnate leaf-Mimosa
- D. Simple leaf-Banyan

Answer: B



A. Phylloclade
B. Cladode
C. Cladophyll
D. Phyllode
Answer: D
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14. More than two leaves are present at each node in
A. Aistonia

13. Petiole is modified into green leafy structure called

- B. Sunflower
- C. Guava
- D. Mustard

Answer: A



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15. Leaf tendril is not seen in

- A. Pisum
- B. Lathyrus
- C. Cucurbits
- D. Nepenthes

Answer: C



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16. Pendulous spike in leaf axis that bears unisexual flowers is called

- A. Panicle
- B. Catkin
- C. Spikelet
- D. Raceme

Answer: B



17. Select an incorrect statement w.r.t. capitulum inflorescence of sunflower

- A. Main axis becomes a flat receptacle
- B. Florets are sessile and many in number
- C. Ray florets are bisexual
- D. Disc florets are actinomorphic

Answer: C



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18. Select an incorrect match:

A. Phyllode-Acacia B. Leaf spine-Pea C. Storage leaf-Onion D. Leaf pitcher-Nepenthes **Answer: B**



- 19. All given statement w.r.t. cymose infloresence are correct except
 - A. Centrifugal opening pattern of flowers
 - B. Unlimited growth of axis

C. Main axis terminates in a flower D. Basipetal arrangement of flowers. **Answer: B Watch Video Solution** 20. Stamens represent the male flowers ad pistil represents a female flower in A. Cyanthium

B. Spadix

C. Verticillaster

D. Hypanthodium.

Answer: A



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21. Flower in angiosperms

- A. Is a modified reproductive shoot
- B. Possess different floral appendages at successive nodes
- C. Have floral appendages which are modified leaves
- D. More than one option is correct.

Answer: D



22. Which of the following aestivation involves non-uniform overlapping of petals?

- A. Valvate
- B. Twisted
- C. Imbricate
- D. Contorted

Answer: C



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23. Find odd one w.r.t. zygomorphic flower

A. Mustard
B. Pea
C. Glumohur
D. Bean
Answer: A
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24. Stamens are united to petals in
24. Stamens are united to petals in A. Lily
A. Lily

D. Verbena

Answer: C



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25. Syncarpous condition is seen in

- A. Lotus and rose
- B. Mustard and tomato
- C. Mustard and lotus
- D. Rose and tomato

Answer: B



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26. Large posterior petal is chracteristic to vexillary aestivation found in members of

- A. Solanaceae
- B. Lillaceae
- C. Fabaceae
- D. Malvaceae

Answer: C



27. When only the filaments of stamens are united into more than two bundles, the condition is called

- A. Monoadelphous
- B. Diadelphous
- C. Polyandrous
- D. Polyadelphous.

Answer: D



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28. In which placentation type, the ovary is two to many chambered and the ovules arise from central axis?

B. Marginal C. Parietal D. Basal **Answer: A Watch Video Solution** 29. Select a correct match: A. Didynamous stamen-Cassia B. Tetradynamous stamen-Mustard C. Epiphyllous condition-China rose

A. Axile

D. Syngenesious condition-Cucumber

Answer: B



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30. Flower is perigynous and the ovary is said to be half inferior in

- A. Rose
- B. Peach
- C. Pisum
- D. All of these

Answer: D

- 31. Choose odd one w.r.t. parthenocarpic fruit
 - A. Mango
 - B. Banana
 - C. Oranges
 - D. Grapes

Answer: A



32. Fruit developed from monocarpellary, superior and unilocular ovary, where the pericarp is fully fused with seed coat is

- A. Follicle
- B. Caryopsis
- C. Achene
- D. Capsule

Answer: B



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33. All given are dry fruits, except

A. Legume	
B. Capsule	
C. Caryopsis	
D. Berry.	
Answer: D	
Watch Video Solution	
34. Select an incorrect match:	
34. Select an incorrect match: A. Legume-Pea	
A. Legume-Pea	

D. Drupe-Mango

Answer: B



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35. Edidble part in pome fruit of apple is

A. Bract

B. Thalamus

C. Cotyledon

D. Endosperm

Answer: B



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36. Mesocarp and endocarp are edible in

A. Pomegranate

B. Banana

C. Coconut

D. Mango

Answer: B



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37. Syconus fruit develops from hypanthodium inflorescence, its fruitlets are _____ in nature.

A. Achenes
B. Nuts
C. Cocci
D. Samara
Answer: A
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38. Aleurone layer of maize seed stores and is
in ploidy.
A. Proteins , n
A. Proteins, ii
B. Cellulose, 2n

- C. Proteins,3n
- D. Fat,3n

Answer: C



- 39. Find odd one w.r.t. non-endospermic seeds
 - A. Gram
 - B. Groundnut
 - C. Pea
 - D. Castor

Answer: D



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40. Scar on the seen coat through which the developing seeds are attached to the fruit is called

A. Hilum

B. kemel

C. Epicotyl

D. Caruncle

Answer: A



41. Which of the given symborl represents epitepalous condition?

D. %

Answer: B



A. Asteraceae
B. Brassicaceae
C. Fabaceae
D. Lillaceae
Answer: B
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43. Select an incorrect match:
43. Select an incorrect match: A. Indigofera -Fabaceae
A. Indigofera -Fabaceae

D. Aloe-Liliaceae

Answer: C



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44. To how many families the given below plants belong? Ashwagandha, Colchicum, Nicotians, Crotolaria, Raphanus, Arachis, Brassies, Solanum, Asparagus, Sesbania

- A. Two
- B. Three
- C. Four

D. Five

Answer: A



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45. Mark the incorrect option (w.r.t. Floral formula of lily family)

A. $A_{\,(\,6\,)}$

B. o(o)

C. $G_{(3)}$

D. ⊕

Answer: A

46. Obliquely placed ovary, swollen placenta and epipetalous stamens are features of family

- A. Solanaceae
- B. Liliaceae
- C. Fabaceae
- D. Brassicaceae

Answer: A



47. Which of the given is/are fodder plants of fabaceae?

A. Sesbania

B. Trifolium

C. Witharia

D. More than one option is correct.

Answer: D



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48. Floral formula

Br %
$$\oint_{(5)} C_{1+2+(2)} A_{(9)+1} \underline{G}_1$$

belongs to

family
A. Solanaeceae
B. Brassicaceae
C. Fabaceae
D. Liliaceae
Answer: C
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49. Mark the odd one (w.r.t. poaceae)
A. Orchids
B. Avena

C. Pennisetum.

D. Secale

Answer: A

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- **50.** Ornamental plants of illiaceae family is
 - A. Lupin
 - B. Gloriosa
 - C. Sweet pea
 - D. Belladonna

Answer: B



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Assigement Section A Objective Type Questions

- 1. Primary root is the direct elongation of the
 - A. Pedical
 - B. Radicle
 - C. Plumule
 - D. Stamen

Answer: B

- 2. The type of roots present in mustard plant is
 - A. Fibrous roots
 - B. Adventitious roots
 - C. Tap roots
 - D. Nodulated roots

Answer: C



3. Which of the following is not the lateral branches of the roots?
A. Tertiary roots
B. Secondary roots
C. Primary root
D. More than one option is correct.
Answer: C
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4. In wheat plant root system is present.

A. Nodulated
В. Тар
C. Fibrous
D. Prop
Amouston, C
Answer: C
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5. Which of the following is not the main function of the
root sytem?
A. Provide anchorage to the plant parts
B. Synthesis of PGRs

- C. Absorption of water and minerals from soil
- D. Photosynthesis

Answer: D



- **6.** Which of the following region of root is responsible for the growth of the root in length?
 - A. Root cap
 - B. Region of meristematic activity
 - C. Region of elongation
 - D. Region of maturation.

Answer: C



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- 7. Root hairs develop from
 - A. Region of elongation
 - B. Region of maturation
 - C. Region of meristemati activity
 - D. Root cap.

Answer: B



8. The region or part of root that increases the sruface area for water absorption is
A. Root cap
B. Zone of elongation
C. Meristematic zone
D. Root hair
Answer: D
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9. The tap roots of gets modified to store food.

A. Carrot

B. Onion C. Ginger D. Sweet potato **Answer: A Watch Video Solution** 10. Adventitious roots of ____ get swollen and store A. Carrot B. Tumip C. Radish D. Sweet potato

Answer: D



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11. Supporting roots coming out of the tower nodes of the sugarcane stem are called

- A. Prop roots
- **B. Stilt roots**
- C. Pneumatophores
- D. Fusiform roots

Answer: B



12. In Rhizophora, roots a	re modified to form
-----------------------------------	---------------------

- A. Tuberous roots
- B. Pneumatophores
- C. Stilt roots
- D. Storage roots

Answer: B



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13. The hanging structures that suppor thanyan tree are called

A. Prop roots
B. Stilt roots
C. Pneumatophores
D. Root hair
Answer: A
Watch Video Solution
14. Stem develops from of the embryo of a
germinating seed.
A. Radicle
A. Radicle B. Plumule

C. Pedicel D. Pneumatophore **Answer: B Watch Video Solution 15.** _____ are the regions of the stem that bear leaves. A. internode B. Nodes C. Follar bud D. Radical bud

Answer: B



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- 16. Stems or potato, ginger and turmeric are modified to
 - A. Respiration
 - B. Perform phosynthesis
 - C. Store food
 - D. Provide support

Answer: C



17. In gourds, axillary buds develop spirally coiled
structures called
A. Throns
B. Tendril
C. Offsets
D. Suckers
Answer: B
Watch Video Solution
18. protect Bougainviliea from grazing animals.
A. Tendrils

C. Offsets D. Thorns **Answer: D Watch Video Solution** 19. Stems are modified into flattened structures, which carryout photosynthesis in A. Euphorbia B. Opuntia C. Bougainvillea

B. Suckers

D. Colocasia

Answer: A



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20. Chlorophyll containing fleshy cylindrical structure found in Euphrobia re modified

- A. Roots
- B. Fruit
- C. Leaves
- D. Stem

Answer: D

21.	Chlorophyll	containing	fleshy	cylindrical	structures
fou	ınd in Euphor	bia are mod	ified		

- A. Roots
- B. Fruit
- C. Leaves
- D. Stem

Answer: D



22. Leaves originate from _	 and	are	arranged	in	an
order.					

- A. Root apical meristem, acrospetal
- B. Floral meristem, basipetal
- C. Shoot apical meristem, acropetal
- D. Internodes, basipetal.

Answer: C



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23. Which of the following is not part of a leaf?

A. pedicel
B. Leaf base
C. petiole
D. Lamina
Answer: A
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24. Leaf base may bear two lateral small leaf like
structures called
structures called A. Lamina

- C. Stipules

 D. Sepals

 Answer: C

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 - 25. Swollen leaf base found in leguminous plants is called
 - A. Leaf blade
 - B. Petiole
 - C. Stipules
 - D. Pulvinus

Answer: D



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26. Which one of the following plants shows alternate phyllotaxy?

- A. Sunflower
- B. Guava
- C. Nerium
- D. Calotropis

Answer: A



27. The petiole expand and become green to syntesize food in

- A. Solanum
- B. Opisum sativum
- C. Venus-fly trap
- D. Australian Acacia

Answer: D



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28. Mark the incorrect statement

- A. Flower is a modified shoot
- B. In cymose inflorescence, the main axis terminates in a flower.
- C. Flowers are borne on successive intermodes on the stems and roots
- D. When a shoot tip transforms into a flower, the flower is always solitary

Answer: C



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29. The four wholes of a flower are arranged on the

A. Thalamus
B. Petiole
C. Corolla
D. Stamens
Answer: A
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30. Radial symmetry is found in flowers of
30. Radial symmetry is found in flowers of A. Cassia
A. Cassia

D. Canne

Answer: B



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31. The flower of which of the following plant is zygomorphic?

- A. Bean
- B. Datura
- C. Mustard
- D. Canne

Answer: A

32. Which of the following plant has a superior ovary?

A. Peach

B. Guava

C. China rose

D. Rose

Answer: C



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33. Which of the following plant has epigynous flower?

A. Cucumber B. Brinjal C. Mustard D. Peach **Answer: A Watch Video Solution 34.** The ray florets of sunflower has A. Superior ovary B. Half inferior ovary C. Half superiks ovary

D. Inferior ovary.

Answer: D



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35. Mark the incorrect match

- A. Calotropis- Valvate
- B. Lady's finger-Twisted
- C. Cassia-Valvate
- D. Gulmohur Imbricate

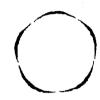
Answer: C



36. Match the column-1 with column-ii w.r.t. aestivation

Column-l

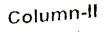
a.



b.



ď



(i) Valvate

(ii) Vexillary

(iii) Twisted

(iv) Imbricate

A. a-ii,b-i,c-iv,d-iii

B. a-iii,b-ii,c-iv,d-i

- C. a-iv,b-ii,c-iii,d-i
- D. a-i,b-iii,c-iv,d-ii

Answer: D



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37. Carpels are fused in the flowers of

- A. Lotus and rose
- B. Tomato
- C. Rose
- D. Both 1 & 3

Answer: B



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- 38. Ovary containing the false septum occurs in
 - A. Primrose
 - B. Dianthus
 - C. Argemone
 - D. Pisum sativum

Answer: C



39. In Placentation, the placenta forms a ridge
along the ventral suture of the of the ovary.
A. Axile
B. Basal
C. Free central
D. Marginal
Answer: D
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40. The stony hard part of the mango represents

A. Mesocarp

- B. Epicarp
- C. Endosperm
- D. Endocarp

Answer: D



- 41. Select the correct statement w.r.t. Mango and coconut
 - A. They develop from monocarpellary superior ovaries
 - B. They develop from monocarpellary inferior ovaries
 - C. They have fibrous epicarp
 - D. They have fleshy edible mesocarp

Answer: A



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- **42.** The inner layer of the seed coat is called
 - A. Testa
 - B. Hilum
 - C. Micropyle
 - D. Tegmen

Answer: D



43. Which of the following parts of the embryo contains
radicle and plumule?
A. Cotyledon
B. Seed coat
C. Embryonal axis
D. Endosperm
Answer: C
Watch Video Solution
44. Which of the following plant has endospermic seed?
A. Bean

B. Gram
C. Pea
D. Castor
Answer: D
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45. While representing a floral formula. G stands for
A. Epigynous flower
B. Superior ovary
C. inferior ovary
D. Androecium

Answer: B



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46. Select the correct option

Col	ur	nr	1-1
-----	----	----	-----

a. Br

b. K

c. C

d. P

Column-II

(i) Corolla

(ii) Perianth

(iii) Calyx

(iv) Bracteate

A. a-iv,b-ii,c-iii,d-i

B. a-iv,b-i,c-iii,d-ii

C. a-iv,b-ii,c-i,d-ii

D. a-i,b-ii,c-iii,d-iv

Answer: C



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47. Actinomorphic nature of flower is represented by which of the following symbols?

A. A

B. %

C. ⊕

D. (4) \$

Answer: C



48. Floral formula of family fabaceae is

- **A.** (1) $\oplus \nsubseteq K_{(5)} C_{1+2+(2)} A_{(4)+1} \underline{G}_1$
- B. (2) % of K₁₆₃ C₁₊₂₊₍₂₎ A₁₈₉₊₁ G₁
- C. (3) $\oplus \not\subseteq K_5 C_{1+2+2} A_{9+1} \subseteq G_1$
- **D.** (4) % $\not\subseteq K_{(5)} C_{1+2+(2)} A_{(9)+1} \underline{G}_{1}$

Answer: D



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49. The floral formula of solanaceae (Chilli) is

- A. $(1) \oplus \not\subseteq K_s C_s A_s \overline{G}_2$
- B. (2) $\oplus \nsubseteq K_{(5)} C_{(5)} A_{(5)} \underline{G}_{(2)}$
- C. $(3) \oplus \not \hookrightarrow \mathsf{K}_{(5)} \circ \mathsf{C}_{(5)} \land \mathsf{A}_5 \subseteq_{(2)}$
- **D.** $(4) \oplus Q \ltimes_s \widehat{C_{(5)}} A_{(5)} G_{(2)}$

Answer: C



- **50.** Which of the following plants is used to extract the blue dye?
 - A. Trifolium
 - B. Lupin

- C. Indigofera
- D. Cassia

Answer: C



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Section B Objective Type Questions

- **1.** The origin of root hairs and lateral roots is , respectively,
 - A. Exogenous and endogenous respectively
 - B. Endogenous and exogenous respectively

- C. Both endogenously
- D. Both exogenously

Answer: A



- 2. Find odd one w.r.t. radicle leaves
 - A. Maize
 - B. Radish
 - C. Carrot
 - D. Tumip

Answer: A



- 3. Cussuta, Viscum and Orobanche are similar in having
 - A. Hygroscopic roots
 - B. Assimilatory roots
 - C. Epiphyllous roots
 - D. Haustorial roots

Answer: D



4. Match the following

Column I

- a. Cuscuta
- b. Rhizophora
- c. Vanda
- d. Pandanus

Column II

- (i) Hygroscopic root
- (ii) Stilt root
- (iii) Haustorial root
- (iv) Respiratory root

- B. a-iii,b-iv,c-i,d-ii
- C. a-iii,b-i,c-iv,d-ii
- D. a-ii,b-iv,c-i,d-iii

Answer: B



5.	Stem	modified	into	green,	flattened	branches	of
un	limited	l growth fo	or assi	imilatory	/ function i	S	

- A. Phyllode
- B. Phylloclade
- C. Cladode
- D. Bulbil

Answer: B



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6. Leafless stem of onion which produces cluster of terminal flowers is called

A. Peduncle B. Floral axis C. Scape D. Rachis **Answer: C Watch Video Solution** 7. Which is not a modification of stem? A. Tuber of potato B. Pitcher of Napenthes C. Corn of Colocasia

D. Rhizome of ginger

Answer: B



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8. Reticulate venation is the feature of dicots but some monocots also exhibits this venation . The one following this type of vennation is

- A. Calophllum
- B. Smilax
- C. Eryngium
- D. Corymbium

Answer: B



- **9.** Thorns, spines and prickles work as ___ in plants .
 - A. Respiratory organs
 - B. Excretory organs
 - C. Organs of offense
 - D. Defensive organs

Answer: D



10. Leaflet tendril and entire leaf tendril are found in respectively.

- A. Cucurbita, Smilax
- B. Pisum,Lathyrus aphaca
- C. Passiflora, vitis
- D. Luffa, Pisum

Answer: B



- 11. Select an incorrect match
 - A. Whorled phyllotaxy-Alstonia, Nerium

- B. Decussate phyllotaxyQuisqualis, Psidium,Syzygium
- C. Alternate phyllotaxy-Mustard, China rose, Sunflower
- D. Opposite phyllotaxy -Zinnia, Calotropis

Answer: B



- 12. Which of the following is not the modification of leaf?
 - A. Tendril in Antigonon
 - B. Tendril in Clematis
 - C. Tendril in Gloriosa
 - D. Tendril in Nepenthes

Answer: A



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13. Select a correct set.

- Plant Organ Function
- Vanda Tap root Moisture absorption
- Plant Organ Function
- Jasmine Offset Photosynthesis
- Plant Organ Function
- C. Pineapple Sucker Propagation
- Plant Organ Function
- Nepenthes Leaftip Photosynthesis

Answer: C



14. Inflorescence with thick, fleshy axis and large-colored
bract is
A. Spathe
B. Spadix
C. Spikelet
D. Hypanthodium.





15. Bisexual sessile and bracteates flowers developing acropetally in

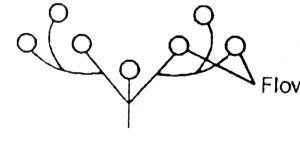
- A. Raceme
- B. Panicle
- C. Spike
- D. Corymbium

Answer: C



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16. Which kind of inflorescence is shown in the figure given below?



A. Simple dichasial cymose
B. Verticilaster
C. Simple monochasial cymose
D. Polychasial cymose
Answer: B
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17. Find the odd one (w.r.t. inflorescence axis elongation)
A. Umbel
B. Spike
C. Raceme

D. Catkin

Answer: A



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18. The type of inflorescence characterized by having dimorphic flower is

- A. Catkin
- B. Umbel
- C. Corymb
- D. Capitulum

Answer: D

19. In Head or Capitulum inflorescence

- A. Ray florets: pistillate and neuter, actinomorphic
- B. Disc florets: bisexual, zygomorphic
- C. Ray florets: plstillate or neuter, zygomorphic
- D. Disc florets: pistillate, actinomorphic

Answer: C



20. Monoadelphous condition and pentacarpellary ovary are present in

- A. China rose family
- B. Pea family
- C. Potato family
- D. Yucca family

Answer: A



- 21. A. Citrus and Ricinus have synandrous condition.
- B. In epitepalous condition, the cohesion occurs between

tepal and filament of stamen.

C. Tetradynamous condition consists of two long and four short stamen filaments.

- A. All are incorrect
- B. Only A is incorrect
- C. Only C is incorrect
- D. Only B is incorrect.

Answer: A



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22. Presence of staminode is characteristic feature of

- A. Caesalpinoideae
- B. Mimosoideae
- C. Arecaceae
- D. uphorblaceae

Answer: A



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23. Match the following

Column II Column II

- a.Amphisarca (i)Aegle
- b.Pepo (ii)Cucumis
- c.Drupe (iii)Ananas
- d.Sorosis (iv)Juglans

- A. a-i,b-ii,c-iv,d-iii
- B. a-i,b-ii,c-iii,d-iv
- C. a-iii,b-ii,c-i,d-iv
- D. a-ii,b-i,c-iv,d-iii

Answer: A



- **24.** Find incorrect matching
 - A. Pome-Fleshy thalamus
 - B. Schizocarp-Mericarp
 - C. Balausta-Aril

D. Syconus-Hypanthodium

Answer: C



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25. Most common fruits of fabaceae and brassicaceae are respectively

- A. Lomentum and Siliqua
- B. Legume and Samara
- C. Lomentum and Silicula
- D. Legume and Siliqua

Answer: D

26. In Coriandrum, the prolongation of thalamus beyond the carpel is called as

- A. Gynophore
- B. Gynandrophore
- C. Androphore
- D. Carpophore

Answer: D



27. A dry dehiscent fruit which develops from multicarpellary, syncarpous superior ovary with axile placentation, is

- A. Capsule
- B. Siliqua
- C. Achene
- D. Lomentum

Answer: A



- A. Food storing haploid structure in grass embryo
- B. Remnant of cotyledon in maize
- C. Shield shaped and large cotyledon of grasses
- D. Protective covering of plumule in grasses

Answer: C



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29. There are given some plants below, select among the options that, to how many families they belong? Plants are-Crotolaria, Atropa, Solanum, Arachis, Bambusa and Chrysanthemum

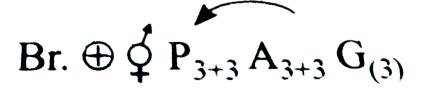
- A. 4 families
- B. 6 families
- C. 2 families
- D. 3 families

Answer: A



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30. Floral formula



represents which one of the following groups of family?

- A. Crotolaria and Astragalus
- B. Lepidium and Iberis
- C. Allium and Asparagus
- D. Vetiveria and Cymbopogon

Answer: C



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31. Find correct match

Colu**m**n I

- a. Sinigrin
- b. Carthamin
- c. Atropine
- d. Aloin

Column II

- (i) Liliaceae
- (ii) Brassicaceae
- (iii) Solanaceae
- (iv) Asteraceae

- A. a-ii,b-iv,c-iii,d-i
- B. a-ii,b-iv,c-i,d-iii
- C. a-i,b-ii,c-iii,d-iv
- D. a-i,b-ii,c-iv,d-iii

Answer: A



- **32.** Find out a set of common N_2 fixing fodder plants
 - A. Trifolium, Atropa
 - B. Withania, Abrus
 - C. Sesbania, Trifollum

D. Aloe, Gloriosa

Answer: C



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33. Family fabaceae is concerned with

- A. Diadelphous stamen, marginal placentation obliquely placed ovary and vexillary corolla
- B. Diadelphous stamen, marginal placenta and large posterior petal
- C. Bsal placentation, versatile stamens, spikelet inflorescence

D. Axile p	lacentation,	non-endospermic	seed,	legume
fruit.				

Answer: B



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34. Butterfly shapped corolla, monocarpellary ovary and zygomorphic flowers are found in family

- A. Caesalpinoideae
- B. Solanaceae
- C. Papilionaceae / Fabaceae
- D. Graminae

Answer: C



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- **35.** Most primitive and advanced families of dicots are respectively
 - A. Solanaceae and Asteraceae
 - B. Leguminosae and Poaceae
 - C. Ranuculaceae and Asteraceae
 - D. Asteraceae amd Cucurbitaceae

Answer: C



Section C Objective Type Questions

- 1. The term 'polyadelphous' is related to
 - A. Gynoecium
 - B. Androecium
 - C. Corolla
 - D. Calyx

Answer: B



2. Many plants among Indigofera, Sesbania, Salvia, Allium,
Aloe, mustard, groundant,radish,gram and turnip have
stamens with different in their flowers

- A. Three
- B. Four
- C. Five
- D. Six

Answer: B



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3. Radial symmetry is found in the flowers of

A. Brassica
B. Triflolium
C. Pisum
D. Cassia
Answer: A
Watch Video Solution
4. Free-central placentation is found in
4. Free-central placentation is found in A. Dianthus
A. Dianthus

D. Citrus

Answer: A



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5. Match Column-I with Column-II and select the correct option using the codes given below

Column-II Column-II

- a. Pistils fused together (i) Gametogenesis
- b. Formation of gametes(ii) Pistillate
- c. Hyphae of higher (iii) Syncarpous Ascomycetes
- d. Unisexual female (iv) Dikaryotic
 flower

A. a-iv,b-iii,c-i,d-ii

- B. a-ii,b-i,c-iv,d-iii
- C. a-i,b-ii,c-iv,d-iii
- D. a-iii,b-i,c-iv,d-ii

Answer: D



- 6. Cotyledon of maize grain is called
 - A. Scutellum
 - B. Plumule
 - C. Coleorhiza
 - D. Coleoptile

Answer: A



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7. Tricarpellary syncarpous gynoecium is found in flowers of

- A. Poaceae
- B. Liliaceae
- C. Solanaceae
- D. Fabaceae

Answer: B



- 8. Which of the following is not a stem modification
 - A. Flattened structure of Opuntia
 - B. Pitcher of Nepenthes
 - C. Thorns of citrus
 - D. Tendrils of cucumber.

Answer: B



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9. Stems modified into flat green organs performing the functions of leaves are known as

A. Scales
B. Cladoodes
C. Phyllodes
D. Phyllociades
Answer: D
Watch Video Solution
10. The standard petal of a papilionaceous corola is also
10. The standard petal of a papilionaceous corola is also called
called

C. Pappus
D. Vexillum

Answer: D



Watch Video Solution

11. Among china rose, mustard, Brinjal, potato, guava,cucumber onion and tulip, how many plants have superior ovary

A. Four

B. Five

C. Six

D. Three

Answer: C



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- 12. Flowers are unisexual in
 - A. Onion
 - B. Pea
 - C. Cucumber
 - D. China rose

Answer: C



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13. Leaves become modified into spines in :-

A. Silk Cotton

B. Opuntia

C. Pea

D. Onion

Answer: B



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14. Keel is the characteristic feature of flower of

A. Tomato	
B. Tulip	
C. Indigofera	
D. Aloe	
Answer: C	
Watch Video Solution	
15. Perigynous flowers are found in	
15. Perigynous flowers are found in A. Rose	
A. Rose	

D. China rose

Answer: A



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16. is the

floral formula of

- A. Brassica
- B. Allium
- C. Sesbania
- D. Petunia

Answer: D



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- 17. Which one of the following statements is correct
 - A. The seed in grasses is not endospermic
 - B. Mango is a parthenocarpic fruit
 - C. A protenaceous aleurone layer is present in maize grain.
 - D. A sterile pistil is called a staminode.

Answer: C



18. An example of edible underground stem is
A. Carrot
B. Groundrnut
C. Sweet potato
D. Potato
Answer: D
Watch Video Solution

19. Placenta and pericarp are both edible portions in

B. Banana C. Tomato D. Potato **Answer: C Watch Video Solution** 20. When the margins of sepals or petals overlap one another without any particular direction, the condition in termed as A. Vexillary

A. Apple

- B. Imbricate
- C. Twisted
- D. Valvate

Answer: B



- 21. An aggregate fruit it is one which develops from
 - A. Multicarpellary syncarpous gynoecium
 - B. Multicarpellary apocarpous gynoeclum
 - C. Complete inflorescence
 - D. Multicarpellary superior ovary.

Answer: B



Watch Video Solution

22. Non-albuminous seed is produced in

A. Maize

B. Castor

C. Wheat

D. Pea

Answer: D



23. Seed coat is not thin, membranous in

- A. Coconut
- B. Groundnut
- C. Gram
- D. Maize

Answer: A



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24. Among bitter gourd. Mustard, brinjal, pumpkin, chinarose, lupin, cucumber, sunnehemp, gram, guava, bean, chilli, plum,petunia, tomato, rose,withania, potato,

onion, aloe and tulip how many plants havehypogynous
flower
A. Ten
B. Fifteen
b. i iicccii
C. Eighteen
D. Civ.
D. Six
Answer: B
Watch Video Solution
25. In china rose the flowers are
A. Actionomorphic, epigynous with valvate aestivation

- B. Zygomorphic, hypogynous with imbricate aestivation.
- C. Zygomorphic, epigynous with twisted aestivation
- D. Actinomorphic, hypogynous with twisted aestivation.

Answer: D



- 26. Placentation in tomato and lemon is
 - A. Marginal
 - B. Axile

- C. Parietal
- D. Free central

Answer: B



- 27. Vexillart aestivation is characteristic of th family
 - A. Solanaceae
 - B. Brassicaceae
 - C. Fabaceae
 - D. Asteraceae

Answer: C



Watch Video Solution

28. Phyllode is present in :-

- A. Australian Acacia
- B. Opuntia
- C. Asparagus
- D. Euphorbia

Answer: A



29. How many plants in the list given below have composite fruits that develop from an inflorescence. Walnut, poppy, radish, fig, pineapple, apple, totato, mulberry.

- A. Two
- B. Three
- C. Four
- D. Five

Answer: B



30. How many plants in the list given below have composite fruits that develop from an inflorescence. Walnut, poppy, radish, fig, pineapple, apple, totato, mulberry.

- A. Two
- B. Three
- C. Four
- D. Five

Answer: C



31. Which one of the following organisms is correctly matched with its three characteristics

A. Pea: $\,C_3\,$ pathway, Endospermic seed, Vexillary aestivation

B. Tomato: Twisted aestivation, Axile placentation,

Berry

C. Onion: Bulb, Imbricate aestivation, Axile placentation

D. Maize: C_3 pathway, Closed vascular bundles, Scutellum

Answer: D

32. How many plants in the list given below have marginal placentation: Mustard, Gram, Tulip, Asparagus, Arhar, Sun hemp, Chilli, Chochicine, onion, Moong, Pea, Tobacco, Lupin

- A. Four
- B. Five
- C. Six
- D. Three

Answer: C



- A. Axiliary buds
- B. Root buds
- C. Flower buds
- D. Shoot buds

Answer: A



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34. Which one of the following statements is correct?

A. Flower of tulip is a modified shoot

- B. In tomato, fruit is a capsule
- C. Seeds of orchids have oil-rich endosperm
- D. Placentation in Primose is basal.

Answer: A



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35. The floral formula of solanaceae (Chilli) is

- (1) $\bigoplus_{s} K_s \stackrel{\longleftarrow}{C_s} A_{(s)} G_s$
- **B.** (2) $\bigoplus_{s} K_{(s)}C_s A_{(s)}G_{(2)}$
- C. (4) $\oplus \mathcal{F}_{(5)}C_{(5)}A_{(5)}G_2$
- D. (4) $\oplus \mathcal{F}_{(5)}C_{(5)}A_{(5)}G_{2}$

Answer: C



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36. A drupe develops in

- A. Tomato
- B. Mango
- C. Wheat
- D. Pea

Answer: B



37. Flowers are Zygomorphic in

- A. Datura
- B. Mustard
- C. Gulmohur
- D. Tomato

Answer: C



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38. Whorled, simple leaves with reticulate venation are present in

A. China Rose

- B. Alstonia
- C. Calotropia
- D. Neem

Answer: B



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39. Which one of the following pairs is wrongly matched while the remaining three are correct ?

- A. Bryophyllum-Leaf buds
- B. Agave-Bulbils
- C. Penicillium-Conidia

D. Water hyacinth-Runner

Answer: D



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40. Sweet potato is homologous to

A. Ginger

B. Tumip

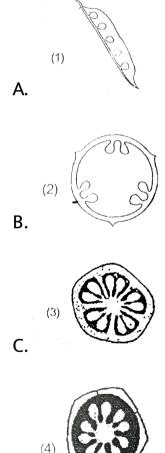
C. Potato

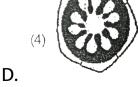
D. Colocasia

Answer: B



41. Which one of the following diagrams represents the placentation in Dianthus





Answer: D



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- **42.** The ovary is half inferior in flowers of
 - A. Guava
 - B. Peach
 - C. Cucumber
 - D. Cotton

Answer: B



43. The technical term used for the androecium in a flower of China rose (Hibicus rosa-sinensis) is

- A. Polyadelphous
- B. Monadelphous
- C. Diadelphous
- D. Polyandrous

Answer: B



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44. The scutellum observed in a grain of wheat or maize is comparable to which part of the seed in other

monocotyledons
A. Plumule
B. Cotyledon
C. Endosperm
D. Aleurone layer
Answer: B
Watch Video Solution
45. Keel is characteristic of the flower of
45. Keel is characteristic of the flower of A. Bean

C. Cassia
D. Calotropis
Answer: A
Watch Video Solution

46. In unilocular ovary with a single ovule the placentation is

- A. Axile
- B. Marginal
- C. Basal
- D. Free central

Answer: C



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- **47.** The ovary is half inferior in flowers of
 - A. Cucumber
 - B. Guava
 - C. Plum
 - D. Brinjal

Answer: C



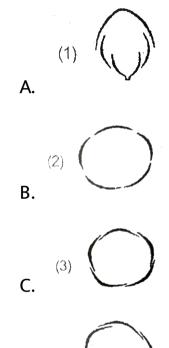
48. Which of the following is a xerophytic plant in which the stem is modified into a flat green and succulent structure?

- A. Opuntia
- B. Casuarina
- C. Hydrilla
- D. Acacia

Answer: A



49. Aestivation of petals in the flower of cotton is correctly shown in



Answer: D

D.



50. The correct floral formula of soyabean is :-

- A. (1) % ${\c 4} K_{(6)} C_{1+(2)+2} A_{(9)+1} G_{\c 7}$
- B. (2) % $\mathcal{E}^1 \ltimes_5 C_{1+(2)+2} A_{(9)+1} G_{\underline{1}}$
- C. (3) $\% {}^{5}K_{(5)}C_{1+2+(2)}A_{(9)+1}G_{\underline{1}}$
- **D.** $^{(4)}$ % $\mathcal{A}^{\mathsf{K}_{(5)}\mathsf{C}_{1-2+(2)}\mathsf{A}_{1+(9)}\mathsf{G}_{\overline{1}}}$

Answer: C

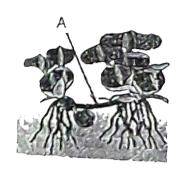


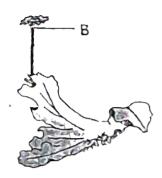
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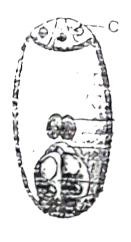
A,B,C and D are identified correctly

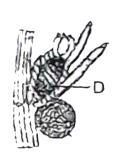
51. Examine the figures (A-D) given below and select the right option out of 1-4 in which all the four structures

Structures:









Rhizome Sporangiophore Polar cell Globule

Β.

 \boldsymbol{A}

B

Runner Archegoniophore Synergid Antheridium

C.

 $A \qquad B \qquad \qquad C \qquad \qquad D$

Offset Antheridiophore Antipodals Oogonium

D.

Answer: C



- **52.** Consider the following four statements (i),(ii),(iii) and (iv)
- (i) In vexillary aestivation, the large posterior petal is called standard, two lateral ones are called wings and two small anterior petals are termed as keel

(ii) The floral formula for Liliaceae is

Br
$$\oplus \bigcirc^{7} P_{(3+3)} A_{3+3} \subseteq_{(3)}$$
.

(iii) In pea flower, the stamens are monadelphous

(iv) The floral formula for Solanceae is

The correct statement are

A. A and C

B. A and B

C. B and C

D. C and D

Answer: B

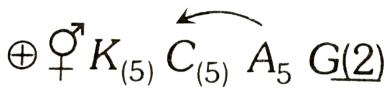


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- 53. Vegetative propagation in Pistia occurs by
 - A. Stolen
 - B. Offset
 - C. Runner
 - D. Sucker

Answer: B





is that of

- A. Soybean
- B. Sunnhemp
- C. Tobacco
- D. Tulip

Answer: C



55. A fruit developed from hypanthodium inflorescence is
called

- A. Sorosis
- **B.** Syconus
- C. Caryopsis
- D. Hesperidium.

Answer: B



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56. Vegetative propagation in mint occurs by

A. Offset B. Rhizome C. Sucker D. Runner **Answer: C Watch Video Solution** 57. Cotyledons and testa respectively are edible parts in A. Walnut and tamarind B. French bean and coconut C. Cashew nut and litchi

D. Groundnut and pomegranate

Answer: D



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58. An example of axile placentation is

- A. Dianthus
- B. Lemon
- C. Marigold
- D. Argemone

Answer: B



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59. Thorn of Bougainvillea and tendril of Cucurbita are examples of :

- A. Retrogressive evolution
- B. Analogous organs
- C. Homologous organs
- D. Vestigial organs

Answer: C



60. The fruit is chambered, developed from inferior ovary and has seeds with succulent testa in

- A. Cucumber
- B. Pomegranate
- C. Orange
- D. Guava

Answer: B



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61. Dry indehiscent single-seeded fruit formed from biscarpellary syncarpous inferior ovary is

A. Cremocarp
B. Caryopsis
C. Cypsela
D. Berry.
Answer: C
Watch Video Solution
62. Endosperm is consumed by developing embryo in the
seed of
A. Maize
B. Coconut

C. Castor
D. Pea
Answer: D
Watch Video Solution
63. Replum is present in the ovary of flower of
A. Pea
B. Lemon
C. Mustard
D. Sunflower

Answer: C



Watch Video Solution

64. The fleshy receptacle of syconus of fig encloses a number of

- A. Mericarps
- **B.** Achenes
- C. Samaras
- D. Berries

Answer: B



65. Pineapple (ananas) fruit develops from

- A. A unilocular flower
- B. A multipistillate syncarpous flower
- C. A cluster of compactly borne flowers on a common axis
- D. A multilocular monocarpellary flower.

Answer: C



66. In which of the following fruits is the edible part the aril?

- A. Custard apple
- B. Pomegranate
- C. Orange
- D. Litchi

Answer: D



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67. Pentamerous actinomorphic flowers, bicarpellary ovary with oblique septa, and fruit a capsule or berry, are

characteristic features of
A. Asteraceae
B. Brassionceae
C. Solanaceae
D. Liliaceae
Answer: C Watch Video Solution
68. What type of placentation of seen in sweet pea
A. Basal
B. Axile

C. Free central D. Marginal **Answer: D Watch Video Solution** 69. Which of the following represents the edible part of the fruit of Litchi -A. Pericarp B. Mesocarp C. Juicy aril D. Endocarp

Answer: C



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- 70. Angionsperm to which the largest flower belong is
 - A. Total root parasite
 - B. Partial root parasite
 - C. Total stem parasite
 - D. Partial stem parasite

Answer: A



A. Screw pine
B. Podostemon
C. Trapa
D. Orchid
Answer: D
Watch Video Solution
72. Pneumatophores are found in-

71. Clinging roots occure in

- A. The vegetation which is found in marshy and saline lake
 - B. The vegetation which is found in acidic soil
 - C. Xerophytes
- D. Epiphytes

Answer: A



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73. In a longitudinal section of a root, starting from the tip upward, the four zones occur in the following order

- A. Root cap, cell division, cell enlargement, cell maturation
- B. Root cap, cell division, cell maturation, cell enlargement
- C. Cell division, cell enlargement, cell maturation, root cap
- D. Cell division, cell maturation, cell entlargement, root cap.

Answer: A



74. A pot bears fruit, has a column of vascular tissue and a tap root system. This plant is a/an

- A. Angiosperm and dicot
- B. Gymnosperm and dicot
- C. Angiosperm and monocot
- D. Gymnosperm and monooot

Answer: A



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75. Eye of potato is

- A. Axiliary buds
- B. Accessory bud
- C. Adventitious bud
- D. Apical bud

Answer: A



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76. How manty plants among China rose, Ocimum, sunflower, mustard, Alstonia, guava, Calotropis and Nerium (Olender) have opposite phyllotaxy

A. Two

B. Three C. Four D. Five **Answer: B Watch Video Solution** 77. The lid of pitcher in pitcher plant, is the modification of A. Leaf apex B. Leaf base C. Petiole

D. Lamina

Answer: A



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78. A pair of insectivorous plants is

- A. Dionaea and Viscum
- B. Venus fly trap and Rafflesia
- C. Drosera and Rafflesia
- D. Nepenthes and bladderwort

Answer: D



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79. The ability of the venus fly trap of capture insects is due to

- A. Specialized "muscle-like" cells
- B. Chemical stimulation by the prey
- C. A passive process requiring no special ability of the part of the plant
- D. Rapid turgor pressure changes

Answer: D



A. Terminates in a flower
B. Has unlimited growth
C. Bears a solitary flower
D. Has unlimited growth but lateral branches end in
flowers
Answer: A
Watch Video Solution
81. Inflorescence is racemose in

80. In a cymose inflorescence the main axis

A. Soyabean

B. Brinjal C. Tulip D. Aloe **Answer: A Watch Video Solution** 82. Hypanthodium is a specialized type of A. Fruit B. Inflorescence C. Thalamus D. Ovary

Answer: B



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83. Hair are found in the inflorescense of Zea mays are the modification of:

- A. Style
- B. Stigma
- C. Spathe
- D. Filaments

Answer: A



84. Floar features are chiefly used in angiosperms identification because

- A. Flowers can be safely pressed
- B. Reproductive parts are more stable and conservative than vegetative parts
- C. Flowers are nice to work with
- D. Flowers are of various colours

Answer: B



85. Tetradynamous condition occurs in

- A. Cruciferae
- B. Malvaceae
- C. Solanaceae
- D. Liliaceae

Answer: A



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86. Anthesis is a phenomenon which refers to

A. Reception of pollen by stigma

- B. Formation of pollen
- C. Development of anther
- D. Opening of flower bud

Answer: D



- **87.** Pappus in sunflower family is the modification of
 - A. Hairs
 - B. Anthers
 - C. Calyx
 - D. Corolla

Answer: C



88. How many plants in the list given below have composite fruits that develop from an inflorescence. Walnut, poppy, radish, fig, pineapple, apple, totato, mulberry.

- A. Two
- B. Three
- C. Four
- D. Five

Answer: B



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89. Which of the following is a 'true fruit'?

- A. Banana
- B. Pineapple
- C. Apple
- D. Pear

Answer: A



A. Endocarp
B. Endosperm
C. Pericarp
D. Mesocarp
Answer: D
Watch Video Solution
91. Aril represents edible part in
A. Mango

90. Coir is the commercial product of coconut's

B. Apple C. Banana D. Litchi **Answer: D Watch Video Solution** 92. Which of the following will lose its economic value, if it fruits are produced by induced parthenocarpy? A. Orange B. Banana C. Grape

D. Pomegranate

Answer: D



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93. Edible part of coconut is

- A. Endosperm
- B. Pericarp
- C. Mesocarp
- D. Fleshy aril

Answer: A



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94. Geocarpic fruit is

A. Carrot

B. Radish

C. Ground nut

D. Tumip

Answer: C



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95. Which is correct pair for edible part?

- A. Tomato-thalamus
- B. Maize-cotyledons
- C. Guava-mesocarp
- D. Date palm-mesocarp

Answer: D



- **96.** Edible part of banana is
 - A. Epicarp
 - B. Mesocarp and less developed endocarp
 - C. Endocarp and less developed mesocarp

D. Epicarp and mesocarp

Answer: C



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97. Edible part of mango is

- A. Mesocarp
- B. Epicarp
- C. Endocarp
- D. Epidermis

Answer: A



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98. Geocarpic fruit is : -

A. Potato

B. Peanut

C. Onion

D. Garlic

Answer: B



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99. juicy hair-like structures observed in the lemon fruit develop form

- A. Exocarp
- B. Mesocarp
- C. Endocarp
- D. Mesocarp and endocarp

Answer: C



- **100.** Select correct statement w.r.t. hard walled berry.
 - A. Multiseeded fruit developing from superior ovary.
 - B. Edible part is juicy unicellular hairs
 - C. Develops from $Gar{3}$

D. Develops from $G\underline{3}$

Answer: C



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101. Scutellum in a caryopsis represents

- A. Outermost layer of endosperm
- B. A sheath that protects the radicle
- C. The place where the seed is attached to rapha
- D. A cotyledon

Answer: D



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102. An example of a seed with endosperm, perisperm and caruncle is

- A. Castor
- B. Cotton
- C. Coffee
- D. Lily

Answer: A



103. Among flowers of Calotropis, tulip, Sesbania, Asparagus, Colchicine, Sweet, pea, petunia, Indigofera, Mustard, Soyabean, Tobacco and groundnut how many plants have corolla with valvate aestivation.

- A. Five
- B. Six
- C. Seven
- D. Eight

Answer: C



104. Which is expressing right appropriate pairing:

- A. Brassicaeae-Sunflower
- B. Malvaceae-Cotton
- C. Papilionaceae-Catechu
- D. Liliaceae-Wheat

Answer: B



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105. Bicarpellary gynoecium and oblique ovary occurs in

A. Mustard

- B. Banana
- C. Pisum
- D. Brinjal

Answer: D



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Section D Assertion Reason Type Questions

1. Assertion: In head inflorescence, florets are arranged centrifugally.

Reason: There are always two types of florets in head.



2. A: Staminal tube is present in Malvaceae.

R: It is due to monadelphous condition.

R. It is due monadelphous condition.



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3. A: Prop roots are rope like showing oblique growth.

R:Prop roots are adventitious roots for extra-support and assimilation.



4. A: The storage region of maize grain is whitish or yellow.

R: it is rich is protein granules.



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5. Assertion: There are two alae in Pisum sativum flower.

Reason: Both alae are covered by largest petal.



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6. A: Corm grows vertically beneath soil surface.

R: It bears nodes, internodes, buds & green leaves.



Matab Midaa Calutian

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7. A: In Smilax, stipule changes into tendril & helps in climbig.

R: Parallel venation is found in this plant.



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8. A: Androecium of Cucurbita is synandrous.

R: Anthers as well as filaments of stamens are united throughout their whole length.



9. A: Nucellus remains persistent in the seeds of black pepper.

R: It is haploid parenchymatous tissue.



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10. A: Epiphyllous roots arise from the margins of leaf lamina.

R: Epiphyllous roots help in vegetative reproduction.



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Try Yourself

1. Which of the following is not a part of root system? A. Root cap B. Node C. Root hair D. Meristematic zone **Answer: B Watch Video Solution** 2. Which of the following is an incorrect statement? A. Roots are positively geotropic B. Roots are always postively phototropic

C. Roots are negatively photoropic

D. Both 1 and 2

Answer: B



- **3.** The radicle elongates and forms_____
 - A. Primary root
 - B. Secondary root
 - C. Rootlets
 - D. Tertiary root

Answer: A



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- 4. Monocotyledon plants generally contain _____.
 - A. Tap root system
 - B. Naked seeds
 - C. Firbrous root system
 - D. Archegonia

Answer: C



A. Tap root of carrot B. Tap root of turnip C. Adventitious root of sweet potato D. Roots of banyan tree **Answer: D Watch Video Solution** 6. Which of the following is not the main function of a root?

A. Respiration

5. Which of the following is not a storage root?

- B. Anchorage
- C. Synthesis of plant growth regulators
- D. Absorption of water and minerals.

Answer: A



- **7.** The region of root responsible for growth of root in length is
 - A. Region of maturation
 - B. Root cap, cell division, cell maturation, cell enlargement

- C. Meristematic zone
- D. Zone of elongation

Answer: D



- 8. The apex of root is protected by the
 - A. Root hair
 - B. Root cap
 - C. Meristamatic cells
 - D. Cells present in the region of maturation.

Answer: B



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- 9. Nodes and intemodes are present in the
 - A. Leaf apex
 - B. Fibrous root
 - C. Tap root
 - D. Stem

Answer: D



A. Terminal buds				
B. Axiliary buds				
C. Throns				
D. More than one option is correct.				
Answer: B				
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11. Mark the incorrect match.				

10. _____ are modified to form tendrils in cucumber

- B. Tendril-Euphorbia
- C. Thorn-Citrus
- D. Sucker-Pineapple

Answer: B



- **12.** Axillary buds in Bougainvilleae get modify into woody, straight and pointed structure called
 - A. Suckers
 - B. Stolons
 - C. Tendrils

D. Thorns

Answer: D



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- **13.** In Chrysanthemum, thelateral branches originate from the
 - A. Basal and aerial portions of the main stem
 - B. Apical and underground portions of the main stem
 - C. Basal and underground portions of the main stem
 - D. Apical and aerial portions of the main stem.

Answer: C

14.	The	spirally	colled,	sensitive	structure	that	provide
sup	port	to weak	plants	are			

- A. Offsets
- B. Thorns
- C. Tendris
- D. Stoions

Answer: C



A. China rose
B. Alstonia
C. Calotropis
D. Guava
Answer: A
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16. Phyllodes are observed in
A. Pisum sativum

15. The alternate type of phyllotaxy is found in

- B. Allium cepa
- C. Allium sativum
- D. Australian Acacia

Answer: D



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17. Parallel venation occurs in

- A. Banana
- B. Peepal
- C. Hibiscus
- D. Mango

Answer: A



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- 18. Incision in the leaf does not reach the midrib in
 - A. Simple leaf
 - B. Bioinnately compound leaf
 - C. Tripinnately compound leaf
 - D. More than one option is correct.

Answer: A



19. What all changes occur when shoot apical meristem converts into floral meristem?



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20. Define cymose inflorescence.



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21. Superior ovary occurs in

A. Hypogynous flower

B. Pengynous flower

C. Epigynous flower

D. Ray florets of sunflower

Answer: D



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22. Which of the following is an accessory organ of flower?

- A. Calyx
- B. Stamen
- C. Gynoecium
- D. Carpel

Answer: A



23. What are epigynous flowers? Give example



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24. Half inferior ovary occurs in the flowers of

A. Mustard

B. Guava

C. Cucumber

D. Plum

Answer: A

25.	Leaf	like	structure	that	protect	the	flower	in	buc
sta	ge are	e call	ed						

- A. Petals
- B. Carpeis
- C. Sepals
- D. Stamens

Answer: C



26. Calyx having fused sepals is called

- A. Polysepalous
- B. Polypetalous
- C. Gamosepalous
- D. Gamopetalous

Answer: D



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27. Define appocarpous and syncarpous condition.



28. The individual leaf segment of the corolla is calle	þ
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- A. Petals
- B. Sepal
- C. Stamen
- D. Carpel

Answer: B



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29. In which of the following plant the type of placentation is free central?

A. Mustard B. Garden pea C. Dianthus D. Wheat **Answer: C Watch Video Solution** 30. The type of placentation that occurs in sunflower is A. Marginal B. Free central C. Parietal

D. Basal

Answer: B



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31. Which of the following is the edible part of the mango?

- A. Epicarp
- B. Mesocarp
- C. Endocarp
- D. Seed

Answer: B

32. Fruit is a mature of ripened _	developed after
fertilisation	

- A. Ovule
- B. Ovary
- C. Female gametophyte
- D. Seed

Answer: C



33. In maize seed the plumule is enclosed by a sheath called as

- A. Testa
- B. Tegmen
- C. Coleoptile
- D. Coleorhiza

Answer: C



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34. The small pore present above the hilum at one end of the seed is called

35. The type of placentation occurring in the individuals of the family Liliaceae is

- A. Axile
- B. Free central
- C. Basal
- D. Marginal

Answer: A



36. The type of venation present in the leaves of the individuals belonging to the family Solanaceae is

- A. Parallel
- B. Furcate
- C. Reticulate
- D. Both 1 and 2

Answer: C



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37. Which of the following plant is a source of dye?

A. Sunhemp B. Trifolium C. Indigofera D. Pea **Answer: C Watch Video Solution** 38. Coichicine is obtained from A. Colchicum luteum B. Colchicum autumnale C. Asparagus

D. Allium cepa (onion)

Answer: B

