

Ravi Maths Tuition Centre

Time: 1 Mins	MORPHOLOGY OF FLOWERING	Marks : 1298
	PLANTS 1	

1.	Select the group of plants that possess stilt roots a) Zea mays, Rhizophora mangal b) Pandanus odoratissimus, Ficus benghalensis c) Ficus benghalensis, Pisum sativum d) Ficus benghalensis, Pisum sativum
2.	Match the following (a) Mustard (i) Liliaceae (b) Mulaithi (ii) Solonaceae (c) Ashwagandha(iii) Fabaceae (d) Tulip (iv) Brassicaceae a) a (iv), b (iii), c (ii), d (i) b) a (iv), b (iii), c (i), d (ii) c) a (iii), b (iv), c (ii), d (i) d) a (i), b (ii), c (iii), d (iv)
3.	The type of placentation in which ovary is syncarpous, unilocular and ovules on sutures is called a) Apical placentation b) Parietal placentation c) Marginal placentation d) Superficial placentation
4.	Leaf tendrils are found in: a) Pea b) Cucumber c) Grape vine d) All of the above
5.	The swollen end of the stalk of flower is called a) Pedicel b) null c) Petiole d) Rachis
6.	A small rootless aquatic herb in which a portion of leaf forms a tiny sack or bladder which traps water insects is a) Dionaea b) Utricularia c) Sarracenia d) Drosera.
7.	Root shows negative geotropism in a) Pothos b) Ficus c) Grass d) Rhizophora
8.	Which of the following is a correct combination of family and its respective members? a) Fabaceae - Colchicum autumnale, Trifolium alexandrinum

b) Solanaceae - Withania somnifera, Petunia c) Liliaceae - Sesbania, Asparagus

d) Asteraceae - Sonchus asper, Nicotiana tabacum

9. Match the following

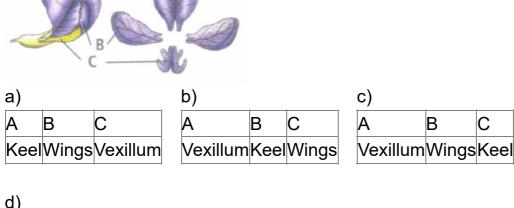
(a) Hypogynous(i) Lily

	(b) Perigynous	(ii) Cucumber, Ray florets of sunflo	wer
	(c) Epigynous	(iii) Plum, Peach	
	(d) Perianth	(iv) Chinarose, Brinjal	
	a) a (iv), b (i), c	(ii), d (iii) b) a (iv), b (ii), c (iii), d (i) c) a (iii), b (ii), c (iv), d (i)
	d) a (iii), b (iv), c	(ii), d (i)	
10.	Vivipary is	·	
	a) Seed germina	ation with subterranean cotyledons	
	b) Seed germina	ation with epiterranean cotyledons	
	•	nent without pollination	
	d) Seed germina	ation inside the fruit while attached	to the plant
11.	Find the correct	match w.r.t plant and its family	
	•	Lilliaceae b) Chilli - Brassicaceae	e c) Mulethi - Solanaceae
	d) Capsella - Fa	baceae	
12.	-	rent types of aestivation (A, B, C ar	nd D) and select the correct
	option.		
	A	B C D	ia da Tarida d Mahada Marillama
		visted Imbricate Vexillary b) Imbr cate Vexillary Valvate d) Twisted	•
13.		inflorescence is a compact spike-l	ike inflorescence with small
	unisexual flower	s	
	a) Spike b) Co	rymb c) Catkin d) Umbel	
14.	Proximal end of	the filament of stamen is attached	to the
	a) Anther b) C	onnective c) Placenta d) Thalan	nus or petal
15.	Read the followi	ng statements.	
	• •	heterophylla, the lamina of subme	· ·
		the lamina of aerial leaves is entire	. This variation in the form of
		d to as	des to the Secretary days to the
	•	s, when exposed to light, turn greer	i due to the increased production
	of a glycoalkaloi		m of the cup shaped thalamus
		,ovary arises from the botto th arises from the rim of the cup-sh	
	•	d stems can be differentiated from	•
		the nodes. Select the correct fill-up	
			3.1 0 ionoming for the

above statements

	a)
	(i) (ii) (iii) (iv)
	developmental heterophyllysolanineRosapresence
	b)
	(i) (ii) (iii) (iv)
	environmental heterophylly solanine Prunus presence
	c)
	(i) (iii) (iv)
	environmental heterophyllychlorophyllPrunusabsence
	d)
	(i) (ii) (iv)
	adaptive heterophyllylycopene Cucurbita absence
16.	An example of axile placentation is: a) Dianthus b) Lemon c) Marigold d) Argemone
17.	Parallel venation is a characteristic of monocots. Which of the following is an exception to this generalisation? a) Smilax b) Colocasia c) Alocasia d) All of these
18.	Modified stem into green, flattened structure for assimilatory function is: a) Phyllode b) Phylloclade c) offset d) Thorn
19.	Identify the family which shows the following diagnostic features. Flowers pentamerous, gynoecium-bicarpellary, syncarpous, ovary placed obliquely, placentation axile, placenta swollen. a) Solanaceae b) Leguminosae c) Papilionaceae d) Liliaceae
20.	Unbranched, erect, cylindrical stout axis with distinct nodes and internodes and with jointed appearance is called as a) runner b) Zygomorphic, hypogynous with imbricate aestivation c) culm d) caudex.
21.	Oil reserve of groundnut is present in a) Embryo b) Cotyledons c) Endosperm d) Underground tubers
22.	Whorled, simple leaves with reticulate venation are present in a) Calotropis b) Neem c) China rose d) Alstonia
23.	The ovary is half inferior in flowers of: a) Guava b) Peach c) Cucumber d) Cotton

24. Select the correct option for A, B and C in the given diagram of papilionaceous corolla.



d)
A B C
WingsKeelVexillum

- 25. The symbol K_{2+2} C_{x4} A_{2+4} represents which one of the following family?
 - a) Solanaceae b) Brassicaceae c) Potato family d) Lity family
- 26. Select the mismatched pair out of the following
 - a) Rhizome Dryopteris, Nelumbo nucifera
 - b) Corm Crocus sativus, Amorphophallus
 - c) Sucker Curcuma domestica, Zingiber officinale
 - d) Tuber Helianthus tuberosus, Solanum tuberosum
- 27. The arrangement of sepals of petals in Calotropis is
 - a) Valvate b) Twisted c) Imbricate d) Vexillary
- 28. Syngenesious condition of stamens is found in Family
 - a) Asteraceae b) Liliaceae c) Cruciferae d) Malvaceae
- 29. In Bougainvillea thorns are the modification of :
 - a) Stipules b) Adventitious root c) Stem d) Leaf
- 30. Plants which produce characteristic pneumatophores and show vivipary belong to:
 - a) Halophytes b) Psammophytes c) Hydrophytes d) Mesophytes
- 31. Which is not a stem modification
 - a) Rhizome of ginger b) Corm of Colocasia c) Pitcher of Nepenthes
 - d) Tuber of potato
- 32. Spines present on the areoles of Opuntia represent
 - a) stem b) leaves c) buds d) phyllodes.
- 33. Match the columns and choose the correct option

Column I (Fruit)	Column II (Edible part)
a) Walnut	I) Cotyledon
b) Cashewnut	II) Seed

Column I (Fruit) Column II (Edible part) c) Orange III) Endocarp d) Strawberry IV) Thalamus a) a-II, b-I, c-III, d-IV b) a-II, b-III, c-I, d-IV c) a-I, b-II, c-IV, d-III d) a-I, b-II, c-III, d-IV 34. Regarding to androecium of given families. Match the following (a) Brassicaceae (i) 2+4 (b) Fabaceae (ii) Diadelphous (c) Solonaceae (iii) Epipetalous (d) Liliaceae (iv) Six stamens in two whorl 3+3 a) a (iv), b (ii), c (iii), d (i) b) a (i), b (ii), c (iii), d (iv) c) a (iv), b (iii), c (ii), d (i) d) a (ii), b (i), c (iv), d (iii) 35. Tetradyanamous conditions occur in a) Cruciferae b) Malvaceae c) Solonaceae d) Liliaceae
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35. Tetradyanamous conditions occur in
•
a) Cruciferae b) Malyaceae c) Solonaceae d) Liliaceae
a) Gradierae b) marvaedae e) esteriadeae a) Emacede
36. Tetradynamous stamens are found in family
a) Malvaceae b) Solanaceae c) Cruciferae d) Liliaceae
37. Pappus is modification of
a) Bracts b) Corolla c) Calyx d) All
38. Cymose inflorescence is present in :
a) Solanum b) Sesbania c) Trifolium d) Brassica
39. Vivipary is characteristics of
a) Mesophytes b) Xerophytes c) Hygrophytes d) Halophytes
40. Which kind of placentation is represented by the given figure?
a) Marginal b) Axile c) Parietal d) Basal
41. Which of the following represents the edible part of the fruit Litchi
a) Endocarp b) Pericarp c) Juicy aril d) Mesocarp
42. The 'eyes' of the potato tuber represent
a) nodes b) root buds c) flower buds d) leaf buds
43. The edible part of turnip is
a) Modified Adventitious roots b) Modified tap root c) Stem

d) Underground stem

44. Placentation in tomato and lemon is:

a) Marginal b) Axile c) Parietal d) Free-central

45. Match the following
(a) Valvate (i) Chinarose
(b) Twisted (ii) Calotropis
(c) Imbricate(iii) Pea
(d) Vexillary (iv) Cassia
a) a (ii), b (i), c (iv), d (iii) b) a (ii), b (iii), c (iv), d (i) c) a (i), b (ii), c (iii), d (iv)
d) a (iv), b (iii), c (ii), d (i)
46. A simple leaf can be differentiated from the pinnae of a compound leaf on the basis
of presence or absence of :
a) number of pinnae b) shape of lamina c) axillary bud d) lateral buds
47. Stem modified into leaf like structure and leaves are changed into spines in a) Phyllode b) Tuber c) Phylloclade d) All the above
48. The gynoecium consists of many free pistils in flowers of
a) Aloe b) Tomato c) Papaver d) Michelia
49. Assertion: In imbricate aestivation, out of five petals one is completely internal, one is completely external and in each of the remaining three petals, one margin is internal and the other is external Reason: Ascending imbricate aestivation is found in Cassia and gulmohur
a)
If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both apportion and reason are true but reason is not the correct evaluation of
If both assertion and reason are true but reason is not the correct explanation of assertion
c) If assertion is true but reason is false. d) If both assertion and reason are false
50. In phyllotaxy, a pair of leaves arise at each node and lie opposite
to each other as in plant
a) alternate, Hibiscusb) opposite, Hibiscusc) opposite, Calotropisd) whorled, Calotropis
51.
Select the incorrect statement regarding the given figure.
a) It represents the baccate fruit of Lycopersicum esculentum.
b) It is derived from a monocarpellary apocarpous gynoecium.
c) It represents the true berry of tomato. d) Both (b) and (c)
52. In turmeric, stem is a a) Tuber b) Bulb c) Rhizome d) Corm

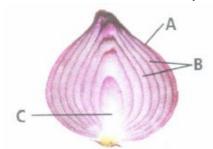
53.	In(i)type of inflorescence, main axis terminates in a flower, hence is limited in
	growth and flowers are borne in <u>(ii)</u> succession.
	a) b) c) d)
	(i) (ii) (ii) (ii) (ii) (iii)
	racemose acropetal racemose basipetal cymose acropetal cymose basipetal
54.	In flowers, margin of thalamus grows upward enclosing the ovary completely and getting fused with it.
	a) hypogynous b) perigynous c) epigynous d) both (b) and (c)
55	In china rose the flowers are :
00.	a) Actinomorphic, epigynous with valvate aestivation
	b) Zygomorphic, hypogynous with imbricate aestivation
	c) Zygomorphic, epigynous with twisted aestivation
	d) Actinomorphic, hypogynous with twisted aestivation
56.	Edible part of apple and pear is
	a) epicarp b) mesocarp c) mesocarp d) thalamus
57.	The coconut water and the edible part of coconut are equivalent to:
	a) Endosperm b) Endocarp c) Mesocarp d) Embryo
58.	Cross from corolla is found in
	a) Cruciferae b) Compositae c) Leguminosae d) Malvaceae
59.	Which of the following represents the edible swollen portion of Allium cepa?
	a) Aerial stem b) Underground stem c) Internodes d) Leaf bases
60.	Marginal placentation is generally found in Family
	a) Leguminosae b) Cucurbitaceae c) Malvaceae d) Brassicaceae.
61.	Nicotiana, petunia belong to
	a) Malvaceae b) Liliaceae c) Solonaceae d) Cruciferae
62.	Which part of the coconut produces coir?
	a) Seed coat b) Mesocarp c) Epicarp d) Pericarp
63.	Replum is present in the ovary of flower of
	a) Lemon b) Mustard c) Sunflower d) Pea
64	Water melon is
•	a) Pome fruit b) Sorosis fruit c) Pepo fruit d) Drupe fruit
65.	In albuminous seeds, food is stored in and in exalbuminous
	seeds, food is stored in
	a) endosperm, cotyledons b) cotyledons, cotyledons c) cotyledons, endosperm
	d) endosperm, endosperm
66.	Perigynous flowers are found in :
	a) Rose b) Guava c) Cucumber d) China rose

- 67. Standard (Vexilum) in Papilionatae (Fabaceae) is
 - a) Posterior outer most b) Posterior inner most c) Anterior outer most
 - d) Anterior inner most
- 68. Among China rose, Mustard, Brinjal, Potato, Guava, Cucurbita, Onion and Tulip, how many plants have superior ovary?
 - a) Five b) Six c) Three d) Four
- 69. Read the given statements and select the correct option

Statement 1: Root cap protects the root meristem from the friction of the soil and its outer cells are continuously replaced by newer ones.

Statement 2: The effect of the soil-friction damages the outer cells of root cap which are peeled off and replaced by new cells produced by root meristem

- a) Both statements 1 and 2 are correct
- b) Statement 1 is correct but statement 2 is incorrect
- c) Statement 1 is incorrect but statement 2 is correct. d) Hydrophytes
- 70. Seed coat is not thin, membranous in :
 - a) Coconut b) Groundnut c) Gram d) Maize
- 71. The given figure represents the V.S. of bulb of Allium cepa. Identify the different parts and select the correct option



a)			
Α	В	С	
Fleshy	Tunic	Terminal	
scales	Turno	bud	

b)		
Α	В	С
Tunio	Terminal	Fleshy
Tunic	bud	scales

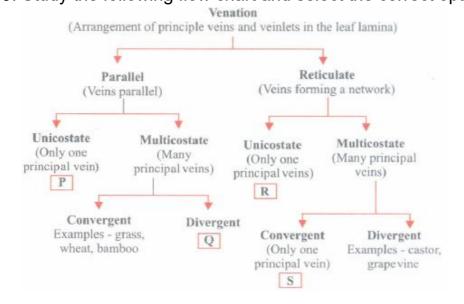
C)		
А	В	С
Tunio	Fleshy scales	Terminal bud

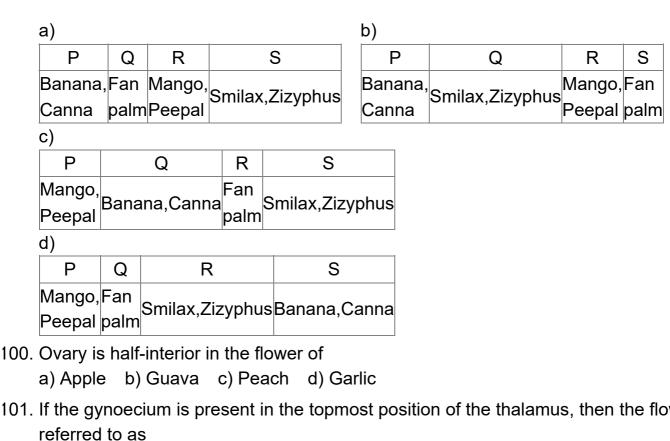
a)		
Α	В	С
Terminal	Fleshy	Tunic
bud	scales	Turne

- 72. Which one of the following statement is correct?
 - a) The seed in grasses is not endospermic b) Mango is a parthenocarpic fruit.
 - c) A proteinaceous aleurone layer is present in maize grain
 - d) A sterile pistil is called a staminode
- 73. Shepherd's purse plant belongs to family
 - a) Cruciferae b) Malvaceae c) Solonaceae d) Leguminosae

74.	Which of the following represents the functions of veins in the leaves? a) Transport of water and minerals b) Mechanical support c) Transport of organic food material d) All of these
75.	Sweet potato is a modified: a) Stem b) Rhizome c) Tap root d) Adventitious root
76.	In which of the following fruits the edible part is the aril? a) Custard apple b) Pomegranate c) Orange d) Litchi
77.	The plant, which bears clinging roots, is a) Trapa b) Orchid c) Screw pine d) Podostemon
78.	Keel is the characteristic feature of flower of : a) Tomato b) Tulip c) Indigofera d) ALoe
79.	Pineapple (ananas) fruit develops from a) A multipistillate syncarpous flower b) A cluster of compactly borne flowers on a common axis c) A multiloiular monocarpellary flower d) A unilocular polycarpellary flower
80.	Which of the following plants is used to extract the blue dye? a) Trifolium b) Indigofera c) Lupin d) Cassia
81.	Roots developed from parts of the plant other than radicle are called a) tap roots b) fibrous roots c) adventitious roots d) nodular roots
82.	What type of placentation is seen in sweet pea? a) Axile b) Free central c) Marginal d) Basal
83.	Edible roots are found in a) rice b) wheat c) potato d) sweet potato
84.	Finely dissected leaf may be an adapta a) xerophytes b) psammophytes c) halophytes d) hydrophytes
85.	Monocotyledonous seeds possess a single cotyledon which is represented by a) scutellum b) aleurone c) tegmen d) endosperm
86.	In onion the swollen underground structure is a) Root b) Rhizome c) Bulb d) Tuber
87.	Select the pair which contains monocotyledonous families. a) Solanaceae and Brassicaceae b) Fabaceae and Asteraceae c) Liliaceae and Poaceae d) None of these
88.	Among bitter gourd, mustard, brinjal, pumpkin, china rose, lupin, cucumber, sunhemp, gram, guava, bean, chilli, plum, petunia, tomato, rose, withania, potato, onion, aloe and tulip how many plants have hypogynous flower? a) Ten b) Fifteen c) Eigtheen d) Six
89.	Axile placentation is present in

- a) Lemon b) Peas c) Argemone d) Dianthus 90. A distinct monocot character shown by the flowers of Liliaceae is a) Hypogynous flowers b) Actinomorphic flowers c) Trimerous flowers d) Bisexual flowers 91. In an inflorescence where flowers are borne laterally in an acropetal succession, the position of the youngest floral bud shall be a) proximal b) distal c) intercalary d) anywhere. 92. In aestivation, sepals or petals in a whorl just touch one another at the margins, without overlapping, as is found in a) valvate, Calotropis b) valvate, Hibiscus c) twisted, Calotropis d) twisted, Hibiscus 93. Verticillaster inflorescence occurs in a) Solonaceae b) Solonaceae c) Fabaceae d) Fabaceae 94. Many pulses of daily use belong to one of the families below (tick the correct answer). a) Solanaceae b) Fabaceae c) Liliaceae d) Poceae 95. The coconut water from tender coconut represents a) endocarp b) fleshy mesocarp c) free nuclear proembryo d) free nuclear endosperm 96. Ovary is said to be half inferior in which of the following conditions? a) Hypogynous b) Perigynous c) Epigynous d) Both (b) and (c) 97. Ovary is one-chambered but it becomes two-chambered due to the formation of false septum in a) Brassica b) Pisum c) Hibiscus d) Dianthus. 98. Lycopersicum esculentum (Tomato) belongs to family b) Malvaceae c) Cruciferae d) Cucurbitaceae a) Solonaceae
- 99. Study the following flow chart and select the correct option for P, Q, R and S.





- 101. If the gynoecium is present in the topmost position of the thalamus, then the flower is
 - b) perigynous c) epigynous d) none of these. a) hypogynous
- 102. pulvinus lef base is the feature of
 - a) Mimosa b) glorisa c) Solanum d) Banana
- 103. Analogous structure of phylloclade is
 - a) Pitcher b) phyllode c) cladode d) Thorn
- 104. Assertion: The placentation in which the placenta forms a ridge along the ventral suture of ovary and ovules are borne on this ridge forming two rows is called parietal placentation.

Reason: The marginal placentation has ovules developed on the inner wall of the ovary or on peripheral part

a)

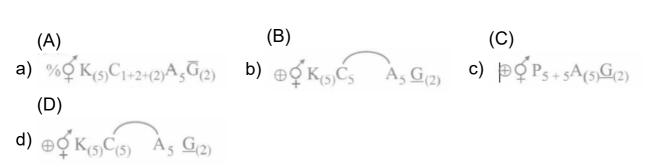
If both assertion and reason are true and reason is the correct explanation of assertion.

b)

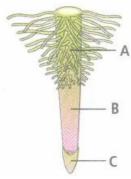
If both assertion and reason are true but reason is not the correct explanation of assertion

- c) If assertion is true but reason is false. d) If both assertion and reason are false
- 105. The term polyadelphous is related to:
 - a) Calyx b) Gynoecium c) Androeciurn d) Corolla
- 106. A plant has a butterfly shaped flower with one standard, two wing like and two keel petals. The plant belongs to the Family
 - a) Papilionaceae b) Asteraceae c) Malvaceae d) Rubiaceae.

107.	How many plants in the list given below have composite fruits that develop from an inflorescence Walnut, poppy, radish, fig, pineapple, apple, tomato, mulberry
	a) Four b) Five c) Two d) Three
108.	Edible part of potato is a) Inflorescence b) Leaves c) Roots d) Stem
109.	The roots that originate from the base of the stem are:
	a) Prop roots b) Lateral roots c) Fibrous roots d) Primary roots
110.	Which floral conditions are represented by the symbols \bigoplus and % respectively?
	a) Zygomorphic and actinomorphic flowers
	b) Actinomorphic and zygomorphic flowers c) Hypogynous and epigynous flowers
	d) Bisexual and unisexual flowers
111.	The standard petal of a papilionaceous corolla is also called
	a) Carina b) Pappus c) Vexillum d) Corona
112.	The term "Keel" is used for special type of
	a) Sepals b) Petals c) Stamens d) Carpels
113.	Free-central placentation is found in :
	a) Dianthus b) Argemone c) Brassica d) Citrus
114.	Pneumatophores occur in :
	a) Carnivorous plants b) Free-floating hydrophytes c) Halophy.tes
445	d) Submerged hydrophytes
115.	Radish is an example of
116	a) Fusiform root b) Napiform root c) Conical root d) Tuberous root
110.	Which of the following plants possesses culm? a) Cuscuta b) Zingiber c) Bamboo d) Cocos
447	
117.	Select the incorrect statement out of the following. a) Assimilatory roots capable of photosynthesis are present in Tinospora and Trapa
	b)
	Haustoria of Cuscuta make connections with both xylem and phoem tissues of host
	c) Reproductive roots of Ipomoea batata help in vegetative propagation.
	d) Epiphytic roots of Vanda possess well developed root caps and root hair.
118.	Study carefully the given floral diagram and select the option which correctly
	represents the related floral formula.



119. Which of the following statements is correct with respect to the given figure showing different zones of a typical root?



- a) Part B mainly helps in absorption of water.
- b) Quiescent centre is present in part B.
- c) Part A is most suitable for anatomical studies of root.
- d) Differentiation of cells can be observed in part C.
- 120. Cohesion of stamens is shown by which one of the following condition?
 - a) Epiphyllous b) Didynamous c) Syngenesious d) Epipetalous
- 121. Phylloclade is found in
 - a) Opuntia b) Cactus c) Acacia d) Both (1) & (2)
- 122. Assertion: Leaves of monocot plants generally possess reticulate venation Reason: Leaves of dicot plants generally possess parallel venation a)

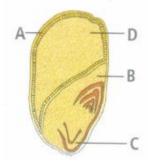
If both assertion and reason are true and reason is the correct explanation of assertion.

b)

If both assertion and reason are true but reason is not the correct explanation of assertion

- c) If assertion is true but reason is false. d) If both assertion and reason are false
- 123. Which of the following plants bears moniliform roots?
 - a) Momordica b) Curcuma c) Dahlia d) Asparagus

124. In the given figure of maize grain certain regions are labelled as A, B, C and D. Match them with the codes (1, 2, 3 and 4) given below and select the correct option.



- (1) The main nutritive tissue
- (2) Shield shaped cotyledon
- (3) Protection sheath of radicle
- (4) The proteinaceous layer
- a) A-(I), B-(3), C-(4), D-(2) b) A-(2), B-(3), C-(1), D-(4)
- c) A-(I), B-(2), C-(3), D-(4) d) A-(4), B-(2), C-(3), D-(I)
- 125. Given are some differences between an underground stem and a root. Select the option that identifies the incorrect pair of differences

Underground stem	Root
It is differentiated into	It is not differentiated into
nodes and internodes.	nodes and internodes.
Scale leaves are present at	Scale leaves are absent in
the nodes.	roots.
Axillary buds are present in	Axillary buds are present at
the axil of scale leaves.	root tips
Branches arise	Branches arise
exogenously.	endogenously.
Flowers and fruits are	Flowers and fruits are
usually present.	absent.
These usually perform the	These always perform the
function of food storage.	function of food storage.

- 126. When the margins of sepals or petals overlap one another without any particular direction the condition is termed as:
 - a) Imbricate b) Twisted c) Valvate d) Vexillary
- 127. Which one of the following is a time fruit?
 - a) Apple b) Pear c) Cashewnut d) Coconut
- 128. In unilocular ovary with a single ovule the placentation is:
 - a) Axile b) Marginal c) Basal d) Free central

	The primary growth in root is due to a) Zone of maturation b) Zone of cell division c) Zone of cell elongation d) Meristematic region
	Fruit of groundnut is a) Legume b) Caryopsis c) Berry d) Nut
	Epipetalous and syngenesious stamens occur in a) Solanaceae b) Brassicaceae c) Fabaceae d) Asteraceae
	What would be the number of chromosomes of the aleurone cells of a plant with 42 chromosomes in its root tip cells? a) 42 b) 63 c) 84 d) 21
133.	Study the given figures and identify the kind of phyllotaxy.
	a) b) (i) (ii) (iii) (i) (ii) (iii) Whorled Opposite Alternate Alternate Opposite Whorled
	c) d) (i) (ii) (iii) (i) (ii) (iii) Opposite Alternate Whorled Opposite Whorled Alternate
	Identify the group of plants possessing leaf tendrils: a) Pea, Glory lily b) Cucumber, Pumpkin c) Watermelon, Grapevine d) All of these
	Assertion: In some flowers like lily, perianth is a term used when calyx and corolla are not distinct. Reason: Calyx and corolla are the reproductive organs a) If both assertion and reason are true and reason is the correct explanation of
	assertion. b) If both assertion and reason are true but reason is not the correct explanation of assertion c) If assertion is true but reason is false. d) If both assertion and reason are false
136.	A perennial plant differs from biennial in a) Having underground perennating structure b) Having asexual reproductive structures c) Being tree species d) Not dying after seasonal production of flowers
	Flower with radical symmetry is

	a) Cassia b) Datura c) Pea d) Canna
138.	Velamen is found in
	a) Roots of screwpine b) Aerial and terrestrial roots of orchids
	c) Leaves of Ficus elastica d) Aerial roots of orchids
139.	Phyllode is present in:
	a) Australian Acacia b) Opuntia c) Asparagus d) Euphorbia
140.	Assertion: The alternate type of phyllotaxy is the arrangement of leaves in which a single leaf arises at each node in alternate manner
	Reason: The alternate type of phyllotaxy is seen in China rose and mustard plant
	a)
	If both assertion and reason are true and reason is the correct explanation of assertion.
	b)
	If both assertion and reason are true but reason is not the correct explanation of assertion
	c) If assertion is true but reason is false. d) If both assertion and reason are false
141.	When adventitious roots are shallow surface feeders then they are known as a) Tuberous root b) Prop root c) Fibrous root d) Conial root
142.	The drug 'Belladona' is obtained from
	a) Atropa b) Rauwolfia c) Solanum d) Capsicum
143.	Juicy hair-like structures observed in the lemon fruit develop from
	a) Exocarp b) Mesocarp c) Endocarp d) Mesocarp and endocarp
144.	Match column I with column II and select the correct option from the given codes
	Column I Column II
	(A) Vegetative buds(i) Buds develop in axlls of leaves
	(B) Floral buds (ii) Buds produce leafy shoots
	(C)Axillary buds (iii) Reproductive buds that produce flowers

	Column I		Column II
(A)	Vegetative buds	(i)	Buds develop in axlls of leaves
(B)	Floral buds	(ii)	Buds produce leafy shoots
(C)	Axillary buds	(iii)	Reproductive buds that produce flowers
(D)	Accessory buds	(iv)	Additional buds borne at leaf bases

$$a)\;(A)\;\text{-}\;(ii),\;(B)\;\text{-}\;(iii),\;(C)\;\text{-}\;(i),\;(D)\;\text{-}\;(iv)\quad b)\;(A)\;\text{-}\;(iii),\;(B)\;\text{-}\;(ii),\;(C)\;\text{-}\;(i),\;(D)\;\text{-}\;(iv)$$

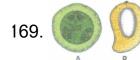
145. Given figure represents a drupe of mango. Select the option that correctly identifies A, B, C and D.



	a)				b)			
	A I	В	С	D	Α	В	С	D
	Pericarpl	Epicarp	Mesocarp	Endocarp	Epicarp	Mesocarp	Endocarp	Seed
	c)			<u>d</u>))			
	А	В	С	D A	В	С	D	
	Mesocar	pEpicar	pEndocar	pSeed E	picarp Me	socarpSe	edEndoca	arp
146.	Assertion	n: The o	utermost o	covering of	a dicotyle	edonous s	seed is the	seed coat
	Reason :	The se	ed coat ha	as two laye	rs-outer t	esta and i	nner hilum	າ.
	a)							
			and reaso	n are true	and reaso	on is the c	correct exp	lanation of
	assertion	١.						
	b)			•	. ,		,	
	assertion		and reaso	on are true	but reaso	n is not th	ie correct (explanation of
			true hut re	ason is fal	sa d) If	hoth asse	artion and	reason are false
1/7	•				•	DOI11 0330	ortion and	icason are laise
141.		_		c) Endoca		ericarn an	nd thalamu	ie.
140	, .		-	,	aip uji	cricarp an	id tilalallid	3
140.			ers are pre	China rose	a d) Cuc	rumher		
140	•	•			·	Jamboi		
149.			-	for inferior ated by end	-	e figure w	ithin hrack	·et
	a)	/ (d) 1001	JII IO II IGIOC	ated by ent		o ligare W	itimi braok	.ot.
		sertion	and reasc	n are true	and reaso	on is the c	correct exp	lanation of
	assertion	١.					•	
	b)							
	If both as	sertion	and reasc	n are true	but reaso	n is not th	ne correct	explanation of
	assertion	1						
	c) If asse	ertion is	true but re	eason is fal	se. d) If	both asse	ertion and	reason are false
150.	Smilax a	nd Glori	iosa belon	g to				
	a) Liliace	ae b)	Solonacea	ae c) Leg	uminosae	e d) Crud	ciferae	
151.	X is a sca	ar on th	e seed coa	at through v	which the	developir	ng seeds v	were attached to
	the fruit;	above t	he X is a s	small pore	called Y.			
	Identify X	and Y	and select	t the correc	t option.			
	a)		b)		;)	<u>d)</u>	<u> </u>	
	X	Y	X Y			X	Y	
	Micropyle		HilumMi		Testa Tegr	nen Cha	alaza Micro	pyle
152.	_		fruit knowi					
	a) cypsel	a b) C	Caryopsis	c) legume	e d) ach	ene		

153. Which of the following is false fruit? a) Pome b) Pepo c) Hesperidium d) Drupe
154. Assertion: In some leguminous plants, the leaf base is swollen. Reason: The swollen leaf base is called pulvinus. a)
If both assertion and reason are true and reason is the correct explanation of assertion. b)
If both assertion and reason are true but reason is not the correct explanation of assertion
c) If assertion is true but reason is false. d) If both assertion and reason are false
155. Diadelphous condition is common in
a) Malvaceae b) Cruciferae c) Liliaceae d) Fabaceae
156. Monothecous condition of stamens, i.e., presence of a single anther lobe is a characteristic of Family:
a) Cucurbitaceae b) Malvaceae c) Asteraceae d) Brassicaceae.
157. Which one of the following pairs is wrongly matched while the remaining three are correct?
a) Agave-Bulbils b) Grass-Runner c) Water hyacinth-Runner
d) Bryophyllum-Leaf buds
158. Leaf tip tendrils are present in
a) Smilax b) Lathyrus c) Pisum d) Gloriosa.
159. Rhizome of ginger is a modification of stem because
a) It bears Adventitious roots b) It bears nodes and internodes
c) It is underground d) It stores food material
160. Which of the following plant parts in garlic and onion are edible?
a) Underground stem b) Fleshy scale leaves c) Tunic d) Adventitious roots
161. The type of placentation present in Dianthus is also present in a) Primose b) Mustard c) China rose d) Marigold
162. Which of the following kinds of venation is present in banana?
a) Reticulate unicostate b) Reticulate multicostate c) Parallel unicostate
d) Parallel multicostate
163. Presence of tetradynamous condition and false septum i.e replum are the features of
family a) Solanaceae b) Brassicaceae c) Liliaceae d) Fabaceae
164. Angiosperm to which the largest flowers belong is
a) Total stem parasite b) Partial stem parasite c) Total root parasite
d) Partial root parasite

- 165. The 'eyes' of the potato tuber represent:
 - a) nodes b) root buds c) flower buds d) leaf buds.
- 166. Basal placentation occurs in
 - a) Poaceae b) Solonaceae c) Malvaceae d) Liliaceae
- 167. Roots of which plant contains an oxidising agent?
 - a) Carrot b) Soyabean c) Mustard d) Radish
- 168. Placentation in pea, bean is
 - a) Axile b) Parietal c) Marginal d) Basal



Identify the given types of fruit and select the correct option.

- a) A = Pepo, B = Nut b) A = Pepo, B = Drupe c) A = Balausta, B = Drupe
- d) A = Drupe, B = Pepo
- 170. Leaves become modified into spines in :
 - a) Silk cotton b) Opuntia c) Pea d) Onion
- 171. The placenta is attached to the developing seed near the
 - a) testa b) hilum c) micropyle d) chalaza.
- 172. Select the incorrect match with respect to the plant and the relative plant part modified for food storage
 - a) Lathyrus odoratus (Sweet potato) Root
 - b) Solanum tuberosum (Potato) Stem c) Allium cepa (Onion) Leaves
 - d) Dahlia (Dahlia) -Leaves
- 173. Match column I with column II and select the correct option from the given codes

	column I		column-ll
Α	Thorns	(i)	Vegetative propagation
В	Phylloclades	(ii)	Defensive mechanism
C	Runners	(iii)	Mechanical support
D	Stilt roots	(iv)	Absorption of nutrition
Ε	Haustoria	(v)	Photosynthesis

- a) A-(v), B-(iv), C-(iii), D-(ii), E-(i) b) A-(ii), B-(v), C-(iii), D-(i), E-(iv)
- c) A-(ii), B-(v), c-(i), D-(iii), E-(iv) d) A-(iii), B-(v), C-(iv), D-(i), E-(ii)
- 174. Coconut water from a tender coconut is _____
 - a) Free nuclear endosperm b) Innermost layers of the seed coar
 - c) Degenerated nucellus d) Immature emryo
- 175. Which one of the following organisms is correctly matched with its three characteristics?

- a) Pea: C₃ pathway, Endospermic seed, Vexillary aestivation
- b) Tomato: Twisted aestivation, Axile placentation, Berry
- c) Onion: Bulb, Imbricate aestivation, Axile placentation
- d) Maize: C₃ pathway, Closedvascularbundles, Scutellum
- 176. Most advanced type of placentation is
 - a) Marginal b) Axile c) Basel d) Parietal
- 177. Match the following

(a) Parietal	(i) Dianthus
(b) Axile	(ii) Sunflower
(c) Free central	(iii) Mustard
(d) Basal	(iv) China rose

- a) a (iii), b (iv), c (ii), d (i) b) a (iii), b (iv), c (i), d (ii) c) a (i), b (ii), c (iii), d (iv)
- d) a (i), b (ii), c (iv), d (iii)
- 178. Following table summarises the comparisons between phylloclades and cladodes (cladophylls).

_					
	Phylloclade	Cladode			
	Both main stem and branches are	Only the branches are modified to take over			
(i)	modified	the			
	to function like leaves	function of leaves			
(ii)	Phylloclade has limited or definite growth	Cladode has unlimited or indefinite growth			
(iii)	It consists of several nodes and internodes	It is usually one internode long			
(iv)	True leaves are commonly	True leaves are either reduced to scales			
(IV)	caducous	or modified to spines			
(v)	Examples:	Examples:			
(v)	Ruscus aculeatus, Asparagus, etc	Opuntia, Euphorbiaroyleana, etc.			

Pick up the wrong differences and select the correct option

- a) (i) and (ii) b) (ii) and (v) c) (ill) and (v) d) (ii) and (iv)
- 179. Which one of the following fruits is parthenocarpic?
 - a) Banana b) Brinjal c) Apple d) Jackfruit
- 180. Which of the following is not an example of corm?
 - a) Colocasia b) Freesia c) Crocus d) Zingiber
- 181. Geocarpic fruit is
 - a) Carrot b) Radish c) Ground nut d) Turnip
- 182. Replum is
 - a) False placenta b) False septum c) False ovule d) False thalamus

183.	Heterospory and seed habit are often discussed in felation to a structure called				
	a) Spathe b) Bract c) Petiole d) Ligule				
184.	Tricarpellary syncarpous gynoecium is found in flowers of: a) Liliaceae b) Solonaceae c) Fabaceae d) Poaceae				
185.	Assertion: Monoadelphous stamens are found in pea Reason: In pea, stamens are united into one bunch or one bundle.				
	a) If both assertion and reason are true and reason is the correct explanation of assertion.				
	b) If both assertion and reason are true but reason is not the correct explanation of assertion				
	c) If assertion is true but reason is false. d) If both assertion and reason are false				
186.	Match column I with column II and select the correct option from the given codes				
	Column-I Column-II				
	A Pedicel (i) Reduced leaf				
	BPeduncle(ii) Stalk of the flower				
	CBract (iii)Stalk of the leaf				
	DPetiole (iv)Inflorescence axis				
	a) A-(ii), B-(iv), C-(i), D-(iii) b) A-(iii), B-(iv), C-(i), D-(ii)				
	c) A-(iii), B-(ii), C-(i), D-(iv) d) A-(ii), B-(iii), C-(i), D-(iv)				
187.	Match column I with column II and select the correct option from the given codes.				
	Column-I Column II				
	(Members of Fabaceae) (Economic importance)				
	A Gram, sem, moong,soybean(i) Timber				
	B Soybean, groundnut (ii) Medicine				

	Column-l		Column II
	(Members of Fabaceae)		(Economic importance)
Α	Gram, sem, moong,soybean	(i)	Timber
В	Soybean, groundnut	(ii)	Medicine
С	Indigofera	(iii)	Fodder
D	Sunhemp	(iv)	Fibres
E	Sesbania, Trifolium	(v)	Dye
F	Dalbergia sissoo	(vi)	Edible oil
G	Glycyrrhiza glabra	(vii)	Pulses

- a) A-(i), B-(ii), C-(iii), D-(iv), E-(v). F-(vi), G-(vii)
- b) A-(vii), B-(vi), C-(v), D-(iv), E-(iii), F-(i), G-(ii)
- c) A-(ii), B-(iv), C-(vi), D-(i), E-(iii), F-(v), G- (vii)
- d) A-(i), B-(iii), C-(v), D-(vii), E-(ii), F-(iv), G-(vi)
- 188. Match Column I with Column II and select the correct option using the codes given below

	Co	Column - I									C	Col	un	nn	- 11				
a.	Pi	Pistills fused together								(i)	C	Gametonesis							
b.	Formation of gametes						(ii)	Pistillate											
C.	Hyphae of higher Ascomycetes							etes	(iii)	S	Syncarpous								
d.	Ur	nis	ехι	ıal	fe	m	ale	flo	we	r			(iv)	E	Dika	ary	otio	C	
a)					b)					c)					d)				
Α	В	C	D		Α	В	С	D		Α	В	С	D		Α	В	С	D	
(iv))(ii)	(i)	(ii)		(ii)	(i)	(iv)	(iii)		(i)	(ii)	(iv)	(iii)		(iii)	(i)	(iv)(ii))

- 189. Placenta swollen with many ovules is present in family
 - a) Solanaceae b) Brassicaceae c) Lilliaceae d) Malavaceae
- 190. With respect to the given figure, select the correct option.

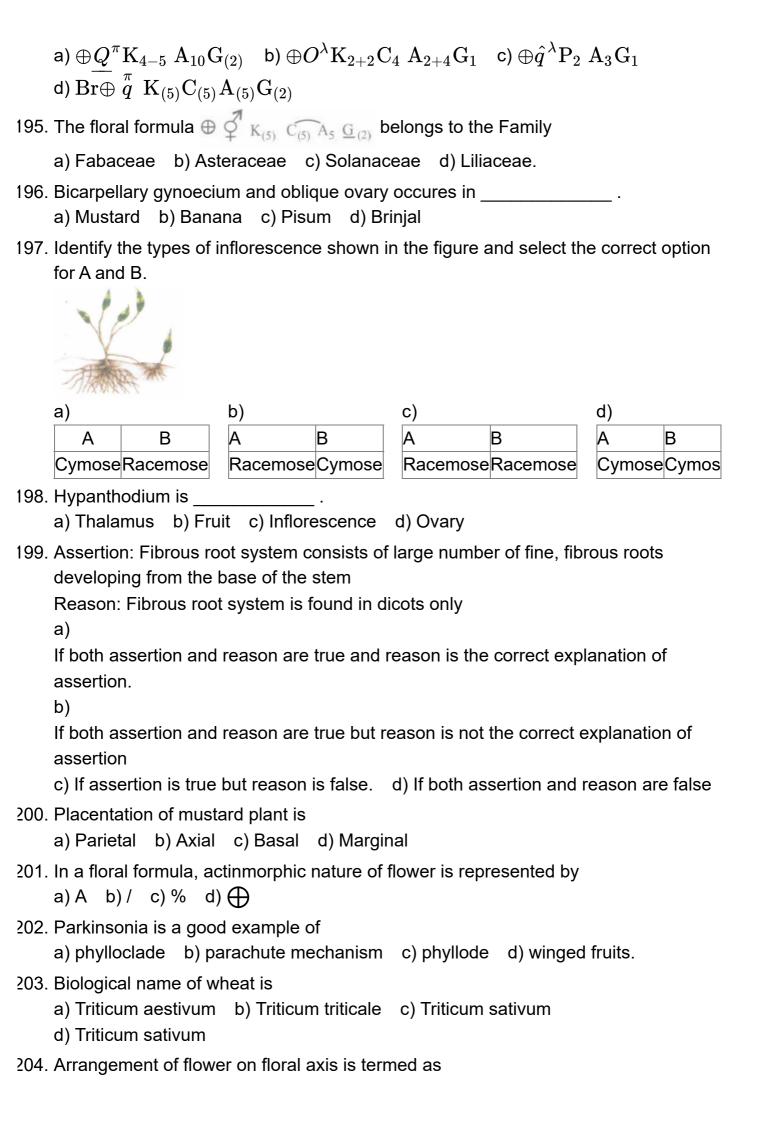


- a) It possesses one or more nodes.
- b) It grows aerially for some distance and finally touches the ground.
- c) It is present in Fragaria, Jasminum, etc. d) All of these
- 191. Caryopsis fruit is found in
 - a) wheat b) Pea c) Gram d) Lentil
- 192. Which one of the flowing statements is correct?
 - 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 Primrose is basal
- 193. Consider the following statements.
 - (i) In Gynandropsis, Passiflora, etc., thalamus is elongated and shows well developed nodes and internodes
 - (ii) The floral buds in Agave, Allium, etc., may sometimes get modified into vegetative buds or bulbils.
 - (iii) Sepals are concerned with protection of flowers in bud condition and petals help to attract insects for pollination.
 - (iv) Stamens and carpels serve as the male and female reproductive organs respectively.

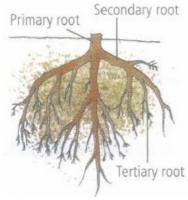
Which of the following combinations of above statements provides an evidence that flower is a modified shoot?

a) (i) and (ii) b) (ii) and (iii) c) (iii) and (iv) d) (i) and (iv)

194. Floral formula of tomato/tobacco is



- a) Phyllotaxy b) Venation c) inflorescence d) inflorescence
- 205. Rearrange the following zones as seen in the root in vertical section and choose the correct option
 - A. Root hair zone
 - B. Zone of meristems
 - C. Root cap zone
 - D. Zone of maturation
 - E. Zone of elongation
 - a) C, B, E, A, D b) A, B, C, D, E c) D, E, A, C, B d) E, D, C, B, A
- 206. The most advanced type of Inflorescence is
 - a) Corymb b) Capitulum c) Spadix d) Catkin
- 207. Spathe is present in the flowers of
 - a) Banana b) Rice c) Marigold d) Sunflower
- 208. Refer to the given figure and select the incorrect statement regarding this.



- a) Lateral roots arising from the main root are exogenous in origin.
- b) Rootlets are the ultimate root branches that bear root hair for absorption.
- c) Secondary and tertiary roots are borne in acropetal succession.
- d) This type of root. system develops from radicle of embryo.
- 209. In cyathium the ratio between female to male flower is
 - a) One:One b) One:Many c) Many:One d) Many:Many
- 210. Cotyledon of maize grain is called:
 - a) Scutellum b) Plumule c) Coleorhiza d) Coleoptile
- 211. Assertion: Stems of some plants protect them from browsing animals Reason: Axillary buds of stems of these plants are modified into thorns a)

If both assertion and reason are true and reason is the correct explanation of assertion.

b)

If both assertion and reason are true but reason is not the correct explanation of assertion

c) If assertion is true but reason is false. d) If both assertion and reason are false

212. Pulses are obtained from
a) Fabaceae b) Asteraceae c) Poaceae d) Solanaceae
213. Select the mismatched pair
a) Taproot system - Dicots b) Fibrous root system - Monocots
c) Fasciculated roots - Curcuma d) Stilt roots - Sugarcane
214. Ray florets have:
a) Hypogynous ovary b) Half inferior ovary c) Inferior ovary d) Superior ovary
215. Placenta and pericarp are both edible portions in:
a) Apple b) Banana c) Tomato d) potato
216. Match the column I to column II
Column I Column II
(A) Mango (i) Cotyledons & peduncle
(B) Strawberry (ii) Mesocarp
(C) Cashew nut(iii) Endosperm
(D) Coconut (iv) Thalamus
a) A- ii, B- iv, C-i, D-iii b) A-ii, B-i, C-iii, D-iv c) A-i, B-ii, C-iii, D-iv
d) A-iv, B-iii, C-ii, D-i
217. The mature seeds of plants such as gram and peas, possess no endosperm,
because
a) these plants are not angiospermsb) there is no double fertilisation in themc) endosperm is not formed in them
d) endosperm gets used up by the developing embryo during seed development
218. The wheat grain has an embryo with one, large, shield-shaped cotyledon known as: a) Coleorrhiza b) Scutellum c) Coleoptile d) Epiblast
219. In a cereal grain the single cotyledon of embryo is represented by
a) scutellum b) prophyll c) coleoptile d) coleorhiza
220. Which of the following is a flowering plant with nodules containing filamentous
nitrogen-fixing micro-organism
a) Crotalaria juncea b) Cycas revoluta c) Cicer arietinum d) Casuarina equisetifolia
221. Marginal Placentation and diadelphous condition are found in the family
a) Fabaceae b) Brassicaceae c) Liliaceae d) Solanaceae
222. In Opuntia, the function of photosynthesis is carried out by
a) cladode b) phyllode c) phylloclade d) stipules.
223. Siliqua is the fruit of
a) Cruciferae b) Malvaceae c) Liliaceae d) Solonaceae
224. Coconut fruit is a:
a) Berry b) Nut c) Capsule d) Drupe

- 225. Find the odd one w.r.t stem tendril
 - a) Grapevines b) Cucumber c) Pea d) Pumpkin
- 226. Flowers are unisexual in:
 - a) Onion b) Pea c) Cucumber d) China rose
- 227. Roots are modified to perform specific functions other than their normal functions. The given figure shows modification of the roots of mangrove plant. Select the incorrect option regarding it.



- a) The stilt roots of red mangrove help in breathing.
- b) The root system is highly entangled, huge and extensive under the water

c)

A large number of animals such as small fishes, crustaceans, sea horses, etc., find shelter in this root system.

d)

Besides providing mechanical support, these roots also perform photosynthetic functions in the plant.

228. Match the followings and choose correct option.

	Group-I		Group-II
Α	Aleurone layer	(i)	Without fertilisation
В	Parthenocarpic fruit	(ii)	Nutrition
C	Ovule	(iii)	Double fertilisation
D	Endosperm	(iv)	Seed

- a) A-(i), B-(ii), (-(iii), D-(iv) b) A-(ii), B-(i), (-(iv), D-(iii) c) A-(iv), B-(ii), (-(i), D-(iii)
- d) A-(ii), B-(iv), (-(i), D-(iii)

229. Identify the missing words (A, B, C and D) and select the correct option.

	J () , , - , ,		•	
Family	Inflorescence	Flower	Stamens/tepals	Gynoecium
Fabaceae	A	В	С	D
Solanaceae	Solitary, axillary or cymose	Actinomorphic	5	Bicarpellary
Lilliaceae	Solitary, cymose or racemose	Actinomorphic	С	Tricarpellary

F k F C	A B Racemose Zy	/gom	orphic3		D			I					
k F C	o) A B	<u>J - · · ·</u>	1		sivion(ocarbe	ellarv						
F	A B		b)										
c A	RacemoseA			CD			c) A		В		С	D	
c A	<u> </u>	ctino	morphic	-		ellary		nose	eZygo	morphi	c3+3	3 Tricarpella	ary
	d)		<u> </u>		<u> </u>				J 75	<u> </u>		<u>'</u>	
C	A B		CI	D									
	CymoseActir	omo	rphic5	Multi	icarp	ellary							
ç f	How many pl groundnut, ra lowers? a) Three b)	dish	, gram a	and t	turnip	p have							
	, Androecium		,		,								
	a) Monoadel _l	•		iade	elpho	us c)) Polv	/ade	lphous	s d) E	bihv	llous	
	Plant having		•		•	•				•			svst
	S	- -				,	501	9	5		a `		- ,
	a) Monocot	b) D	- picot c) Gy	mnos	sperm	or di	cot	d) Gy	/mnosp	ern	or monoco	ot
	∕ Match colum	•	•	. •		-			, -				
	Column-I	1 1	Column						₋ -			- g	
,	AMarginal	+	Sunflow		marig	old							
-	B Parietal	+ + +	Pea			<u> </u>							
H	CAxile	\ <i>'</i>	Mustard	l, Arg	gemo	one							
Γ	DFree centra	ıl(iv)	Hibiscus	s, to	mato	, lemo	n						
F	EBasal	(v)	Dianthu	s, Pi	rimro	se							
6	a) A-(ii), B-(ii), C-	(iv), D-(v). E	Ξ-(i)	b) A-((i), B-	-(iii),	C-(ii),	D-(v),	E-(iv	·)	
C	c) A-(i), B-(ii)	C-II	il). D-(iv	/), E-	-(v)	d) A-(iii), B	8-(ii),	C-(iv)	, D-(v).	E-(i)	
:34. F	ruit of brinja	l is											
6	a) Berry b)	Hesp	peridium	n c) Dru	ıpe d) Por	ne					
<u>′</u> 35. \	What is eye	of po	tato?										
6	a) Axillary bu	d b) Acess	oryk	bud	c) Adv	venti	tious	s bud	d) Api	cal b	oud	
	A family delin		•	-		•				, ,			
	a) Fabaceae												
	,	•			•				•		have	taken ove	r th
	unction of ph							-	. •				
	a) Phylloclad		•				odes	d)	Stem	thorns			
	Floral feature		•		•	-		•			ecai	ise	

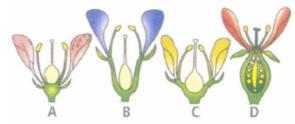
(a) Flowers are of various colours b) Flowers can be safely pressed c) Reproductive parts are more stable and conservative than vegetative parts d) Flowers are nice to work with
	In which of the following family, perianth and trimerous flowers are found a) Malvaceae b) Crucifereae c) Liliaceae d) Papilionaceae
k a a k	Read the following statements and select the correct option. Statement 1: The stem tubers are the swollen ends of specialised underground stem branches, which help in vegetative propagation of the plant Statement 2: Solanum tuberosum is an example of a stem tuber which stores inulin as the main reserve food material. a) Both statements 1 and 2 are correct b) Statement 1 is correct but statement 2 is incorrect c) Statement 1 is incorrect but statement 2 is correct d)
t	Ficus benghalensis, Pisstem tuber is an oval or spherical underground swollen stem structure which does not bear adventitious roots, e.g., potato (Solanum tuberosum), Jerusalem artichoke (Helianthus tuberosus). Food reserve is starch in potato and inulin in artichokeum sativum
	Endospermic seeds are found in a) barley b) castor c) pea d) both (a) and (b).
	An example of edible underground stem is : a) Carrot b) Groundnut c) Sweet potato d) Potato
243. I	In som the leaf base may become swollen and is called as
	a) monocots, sheathing leaf base b) legumes, pulvinus c) legumes, sheathing leaf base d) monocots, pulvinus
á	Botanical name of cauliflower is a) Brassica oleracea var. capitata b) Brassica campestris c) Brassica oleracea var. botrytis d) Brassica oleracea var. gemmifera
	Polyadelphous stamens are found in a) Cotton b) China rose c) Pea d) Lemon
	Which plant part is modified into pitcher in pitcher plants? a) Root b) Stem c) Leaf d) Flower
	Butterfly shaped corolla is called a) Campanulate b) Rotate c) Papilionaceous d) All
	A modification of petiole is a) Phyllode b) Phylloclade c) Cladode d) Corm
249. I	In Dianthus, placentation is

a) Basal b) Free central c) Axile d) Marginal
250. Venation is a term used to describe the pattern of arrangement ofa) floral organsb) flower in inflorescencec) veins and veinlets in a laminad) all of them
251. Buttress roots are found in
a) Sorghum b) Banyan c) Terminalia d) Pandanus
252. The technical term used for the androecium in a flower of China rose (Hibiscus rosa-
sinensis) is:
a) Polyadelphous b) Monadelphous c) Diadelphous d) Polyandrous
253. Aestivation in the corolla of pisum sativum is
a) Imbricate b) Vexillary c) Quincuncial d) Valvate
254. Endosperm, a product of double fertilisation in angiosperms is absent in the seeds of
a) coconut b) orchids c) maize d) castor.
255. Sweet potato is homologus to
a) Turnip b) Potato c) Colocasia d) Ginger
256. Cereals, castor and coconut possess seeds
a) endospermic b) zoospermic c) non-albuminous d) none of these
257. Which one of the following is a xerophytic plant in which the stem is modified into a
flat, green and succulent structure?
a) Casuarina b) Hydrilla c) Acacia d) Opuntia
258. Which one of the following is exalbuminous seed?
-
a) Wheat seed b) Maize seed c) Castor seed d) Pea seed
259. The embryo in sunflower has
a) One cotyledon b) Two cotyledons c) Many cotyledons d) No cotyledon
260. In spiral phyllotaxy, the number of leaves at each node is
a) one b) two c) three d) many.
261. Which plant will lose its economic value if its fruits are produced by induced
parthenocarpy?
a) Grape b) Pomegranate c) Banana d) Orange
262. Colchicum autumnale belongs to
a) Leguminosae b) Cruciferae c) Liliaceae d) Malvaceae
, 3

263. Which of the following features characterise the family represented by the given floral diagram?



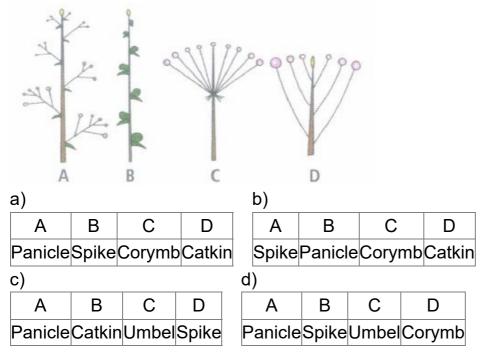
- a) Cruciform corolla with quincuncial aestivation
- b) Stamens with didynamous condition
- c) Bicarpellary, syncarpous ovary with parietal placentation
- d) Inflorescence usually cymose
- 264. Based on the position of floral parts on thalamus, the flowers, are described as hypogynous, perigynous and epigynous. Which of the following floral forms (A-D) represent the flowers of Rosa and Prunus respectively?



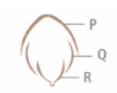
- a) A and B b) B and C c) C and D d) B and D
- 265. Which of the following is an incorrect pair?
 - a) Phylloclade Opuntia b) Cladode Ruscus c) Phyllode Asparagus
 - d) Stem tendrils Grapevine
- 266. Stems modified into flat green organs performing the functions of leaves are known as:
 - a) Scales b) Cladodes c) Phyllodes d) Phylloclades
- 267. Which of the following floral formulae corresponds to Family Liliaceae?
 - (A) (B) (C)
 a) $Br \oplus Q P_{3+3}A_{3+3}\overline{G_{(3)}}$ b) $Br \oplus Q P_{3+3}A_0 \underline{G_{(3)}}$ c) $Br \oplus Q P_{3}A_3 \underline{G_{(3)}}$ (D)
 d) $Br \oplus Q P_{(3+3)}A_{3+3}\underline{G_{(3)}}$
- 268. Vexillary aestivation is characteristic of the family
 - a) Fabaceae b) Asteraoeae c) Solanaceae d) Brassicaceae
- 269. An aggregate fruit is the one which develops from:

	a) Multicarpellary, apocarpous gynoeciumb) Complete inflorescencec) Multicarpellary, superior ovaryd) Multicarpellary, syncarpous gynoecium
270	Tetradynamous stamens and cruciform corolla are characteristic features of
270.	a) Solanum tuberosum (Potato) b) Abelmoscus esculentus (Lady finger)
	c) Ochroma lagopus (Balsa) d) Brassica campestris (Mustard)
274	
2/1.	'Simla mirch' chillies and potato belongs to family
	a) Solonaceae b) Compositae c) Gramineae d) Cruciferae
272.	Which floral family has (9) + 1 arrangement of anthers in the androecium?
	a) Malvaceae b) Rutaceae c) Fabaceae d) Caesalpinaceae
273.	Read the given statements.
	(i) Gynoecium occupies the highest position while the other floral parts are situated
	below it.
	(ii) Ovary is superior.
	(iii) Examples are Brassica, Hibiscus, brinjal, etc.
	Which condition of flowers is being described by the above statements?
	a) Hypogyny b) Perigyny c) Epigyny d) None of these
274.	Catkin inflorescence is found in
	a) Wheat b) Oat c) Mulberry d) Fig
275.	Given figure represents longitudinal section of a monocotyledonous embryo. Identify
	the parts labelled as A, B, C and D from the list (i-vii) and select the correct option.
	(i) Scutellum
	(ii) Coleoptile
	(iii) Shoot apex
	(iv) Epiblast
	(v) Radicle
	(vi) Root cap
	(vii) Coleorhiza
	DA A
	a) b) c) d)
	ABCD ABCD ABCD ABCD
	$ \underline{(i) (\vee i) (\vee ii) (ii) } \underline{(ii) (\vee ii) (\vee) (ii) } \underline{(ii) (\vee i) (\vee ii) } (iii) (\vee ii) (\vee$
276.	In Bougainvillea, weak stems rise up a support by clinging to it with the help of
	curved thorns, such plants are called as
	a) tendrils b) hooks c) offsets d) scramblers.
277.	Vegetative reproduction of Agave occurs through
	a) Rhizome b) Stolon c) Bulbils d) Sucker

- 278. Zygomorphic flower occurs in
 - a) Pea b) Gulmohur c) Cassia d) All of these
- 279. Which of the following is not stem modification:
 - a) Flattened structures of Opuntia b) Pitcher of Nepenthes c) Thorns of Citrus
 - d) Tendrils of cucumber
- 280. Vegetative propagation in Pistia occurs by :
 - a) Stolon b) Offset c) Runner d) Sucker
- 281. The given figure shows some types of inflorescences. Select the option that correctly identifies them.



- 282. In which of the families the stamens are in two whorls and epiphyllous
 - a) Malvaceae b) Malvaceae c) Liliaceae d) Caesalpinoideae
- 283. Bicarpellary ovary with parietal placentation and false septum is found in
 - a) Cruciferae b) Leguminosae c) Malvaceae d) Compositae
- 284. Botanical name of pea plant is
 - a) Pisum sativum b) Pinus sativus c) Pyrus sativus d) Pisum sativus
- 285. The morphological nature of the edible part of coconut is:
 - a) Cotyledon b) Endosperm c) Pericarp d) Perisperm
- 286. The given figure represents vexillary aestivation. Select the suitable labels for P, Q, and R.



a)			b)			c)			d)	d)			
Р	Q	R	Р	Q	R	Р	Q	R	Р	Q	R		
Stand	lardWir	ngAla	Stand	dardKe	elWing	Wir	ng Ke	elCarina	Stand	dardAla	Carina		

287. Assertion: Avicennia has pneumatophores.

Reason: Pneumatophores help the plant to get oxygen for respiration

a)

If both assertion and reason are true and reason is the correct explanation of assertion.

b)

If both assertion and reason are true but reason is not the correct explanation of assertion

- c) If assertion is true but reason is false. d) If both assertion and reason are false
- 288. Allium cepa (onion) belongs to the family
 - a) Solonaceae b) Liliaceae c) Cruciferae d) Compositae
- 289. Assertion: Fruit is the mature or ripened ovary developed after fertilisation Reason: Fruit formed without fertilisation of the ovary is called parthenocarpic fruit.

If both assertion and reason are true and reason is the correct explanation of assertion.

b)

If both assertion and reason are true but reason is not the correct explanation of assertion

c) If assertion is true but reason is false. d) If both assertion and reason are false 290. Assertion: The floral formula of Family Solanaceae is



Reason: This floral formula of Solanaceae tells that flower is bisexual, sepals five, petals five, stamens five and gynoecium tricarpellary, trilocular with many ovules.

a)

If both assertion and reason are true and reason is the correct explanation of assertion

b)

If both assertion and reason are true but reason is not the correct explanation of assertion

c) If assertion is true but reason is false d) If both assertion and reason are false

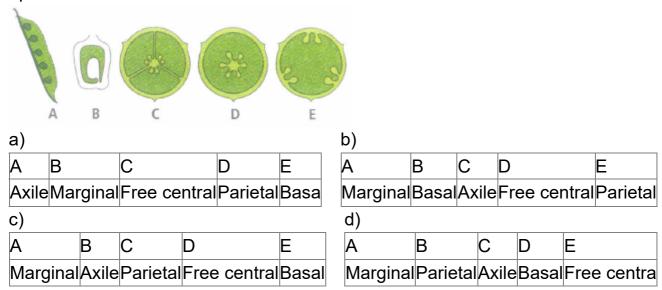
291. Identify the type of modified root and select the correct statement regarding it.



- a) It is the tuberous root of Dahlia that stores inulin as reserve food.
- b) It is a modified taproot that occurs in Dahlia.
- c) It is a modified adventitious root that stores reserve food material.
- d) These roots are modified to provide mechanical support to the plant.
- 292. Match column I with column II and select the correct option from the given codes.

	Column I		Column II
	(Type of fleshy taproot)		(Example)
Α	Conical	(i)	Brassica rapa
В	Fusiform	(ii)	Daucus carota
C	Napiform	(iii)	Raphanus sativus
D	Tuberous	(iv)	Mirabilis jalapa

- a) A-(ii), B-(iii), C-(i), D-(iv b) A-(iii), B-(ii), C-(i), D-(iv) c) A-(ii), B-(i), C-(iii), D-(iv)
- d) A-(ii), B-(iii), C-(iv), D-(i)
- 293. Identify the different types of placentation shown in figure and select the correct option.

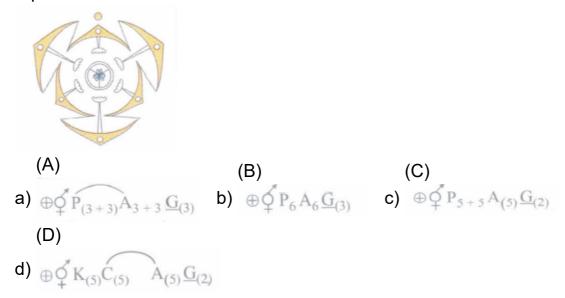


- 294. Roots associated with nitrogen fixing bacteria are
 - a) Fusiform roots b) Napiform roots c) Nodulated roots d) Conical roots
- 295. How many plants in the list given below have marginal placentation?

 Mustard, Gram, Tulip, Asparagus, Arhar, Tobacco Sunhemp, Chilli, Colchicine,
 Onion, Moong, Pea, Lupin.

	a) Four b) Five c) Six d) Three
296.	Persistent calyx is the character of plants belonging to Family a) Solanaceae b) Malvaceae c) Cruciferae (Brassicaceae) d) Compositae.
297.	Coleorhiza and coleoptile are the protective sheaths covering and respectively
	a) radicle, plumule b) plumule, radicle c) plumule, hypocotyl d) epicotyl, radicle
298.	New banana plants develop from a) Rhizome b) Sucker c) Stolon d) Seed
299.	Inferior ovary is present in a) Hypogynous flower b) Perigynous flower c) Dichogamous flower d) Epigynous flower
300.	Assertion: The cymose type of inflorescence has limited growth. Reason: In cymose inflorescence the main axis terminates in a flower a) If both assertion and reason are true and reason is the correct explanation of assertion.
	b) If both assertion and reason are true but reason is not the correct explanation of assertion c) If assertion is true but reason is false. d) If both assertion and reason are false
301.	are one internode long runners, usually found in rosette plants at the ground/water level. a) Trailers b) Offsets c) Stolons d) Rhizomes
302.	Which is correct pair for edible part? a) Tomato - Thalamus b) Maize - Cotyledons c) Guava - mesocarp d) Data palm - Mesocarp
303.	Non-albuminous seed is produced in: a) Maize b) Castor c) Wheat d) Pea
304.	Flowers are zygomorphic in: a) Mustard b) Gulmohur c) Tomato d) Datura
305.	In placentation, a monocarpellary ovary bears a single longitudinal ovule along the junction of two fused margins a) axile b) parietal c) free central d) marginal

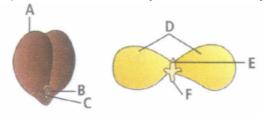
306. Study carefully the given floral diagram and select the option which correctly represents the related floral formula.



- 307. Atropa belladona, an important medicinal plant is of the family
 - a) Liliaceae b) Cucurbitaceae c) Cruciferae d) Solonaceae
- 308. A dicot plant showing parallel venation is
 - a) Smilax b) Calophyllum c) Cotton d) Mango
- 309. Reticulate venation is a characteristic of dicots. An exception to this generalisation is a) Ca/ophyllum b) Ficus c) Hibiscus d) Zizyphus.
- 310. Edible part in pomegranate is
 - a) Testa b) Epicarp c) Endocarp d) Epidermis
- 311. Which of the following figures represents a typical placentation as seen in Hibiscus rosa sinensis (China rose)?



312. Refer to the given figures showing structure of dicotyledonous seed and select the option that correctly identifies any of the labelled parts.



- a) A-Seed coat, B-Cotyledon, C-Plumule b) D-Micropyle, E-Hilum, F-Radicle
- c) B-Hilum, E-Plumule, F-Radicle d) C-Cotyledon, D-Micropyle, E-Radicle
- 313. If the filaments are fused in a single group the condition is
 - a) Monoadelphous b) Polyadelphous c) Both 1 & 2 d) Diadelphous
- 314. Radial symmetry is found in the flowers of :
 - a) Cassia b) Brassica c) TrifoLium d) Pisum

- 315. Ground nut belongs to family
 - a) Fabaceae b) Malvaceae c) Liliaceae d) Cucurbitaceae
- 316. In Ruscus, the modification is
 - a) Phyllode b) Cladode c) Offset d) Sucker
- 317. Fruit legume is characteristic feature of
 - a) Solonaceae b) Liliaceae c) Fabaceae d) Fabaceae
- 318. Which is an example of offset?
 - a) Cynodon dactylon b) Eichhornia c) Fragaria d) Mentha
- 319. In ginger vegetative propagation occurs through
 - a) Offsets b) bulbils c) Runners d) Rhizome
- 320. Find out the incorrect match.
 - a) Sterile stamen Staminode b) Stamens attached to petals Epipetalous
 - c) Stamens attached to perianth Episepalous d) Free stamens Polyandrous
- 321. Read the given statements and select the correct ones.
 - (i) Root caps are present in prop roots.
 - (ii) Pneumatophores help to get oxygen for respiration
 - (iii) Edible part of ginger is underground stem
 - (iv) Hydrophytes usually possess a well developed root system
 - a) (i) and (ii) only b) (ii) and (iii) only

c)

Hydrophytes are plants adapted for growing in water. In hydrophytes, roots are of secondary importance so they are poorly developed.

- d) (i), (ii), (iii) and (iv)
- 322. The ovary is half inferior in:
 - a) Sunflower b) Plum c) Brinjal d) Mustard
- 323. Find correct match

	Column - I		Column - II
a.	Bulb	(i)	Potato
b.	Rhizome	(ii)	Jasmine
C.	Stolon	(iii)	Ginger
d.	Tuber	(iv)	Allium

- a) a(i), b(iii), c(ii), d(iv) b) a(iv), b(iii), c(ii), d(i) c) a(iv), b(iii), c(i), d(ii)
- d) a(iii), b(iv), c(ii),d(i)
- 324. Select the incorrect pair out of the following
 - a) Monadelphous Hibiscus b) Diadelphous Cucurbita
 - c) Polyadelphous Citrus d) Syngenesious Helianthus
- 325. The ornamental leguminous plant is
 - a) Tulip b) Petunia c) Sesbania d) Lupin

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