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Date	:	
Time	:	BIOLOGY
Marks	:	

MORPHOLOGY OF FLOWERING PLANTS

Single Correct Answer Type

- Which of the following are not characteristic features of Fabaceae?
 - a) Tap root system, compound leaves and receme inflorescence
 - b) Flowers actinomorphic, twisted aestivation and gamopetalous
 - c) Stamens ten, introrse, basifixed and dithecous
 - d) Monocarpellary, ovary superior and bent stigma
- When the floral appendages are in multiple of 3, 4, 5, they are respectively called
 - a) Trimerous, tetramerous, pentamerous
- b) Penatmerous, tetramerous, trimerous
- c) Tripinnate, tetrapinnate, pentapinnate d) Tetrapinnate, tripnnate, pentapinnate
- The type of leaf in *Daucus carota* is
 - a) Simple
- b) Bipinnate
- c) Tripinnate
- d) Decompound

- Most advanced fruit is 4.
 - a) Cypsela
- b) Caryopsis
- c) Pome
- d) Etaerio of drupe

Identify A, B and C in the given diagram 5.



- a) A-Seed coat, B-Micropyle, C-Hilum
- c) A-Hilum, B-Seed coat, C-Micropyle
- b) A-Seed coat, B-Hilum, C-Micropyle
- d) A-Micropyle, B-Seed coat, C-Hilum

- 6. Pedicel of flower is called
 - a) Thalamus
- b) Receptacle
- c) Both (a) and (b)
- d) Either (a) or (b)
- 7. A tree that has strong erect stem with hollow internodes and solid nodes, is known as
 - a) Caudex
- b) Deliquescent
- c) Scape
- d) Culm

- Identify the correct order (root) from base to root apex
 - I. Mineral absorption zone
 - II. Soil penetration zone
 - III. Cell number increasement zone
 - V. Cell elongation zone
 - a) II, I, IV, III
- b) I, II, III, IV
- c) IV, III, II, I
- d) III, IV, I, II
- Study the following statements and choose the correct option.
 - I.Buds are present in the axil of leaflets of the compound leaf.
 - II.Pulvinus leaf-base is present in some leguminous plants.
 - III.In Alstonia, the petioles expand, become green and synthesize food.
 - IV.Opposite phyllotaxy is seen in guava.
 - a) II and IV are correct but I and III are wrong
 - b) I and III are correct but II and IV are wrong
 - c) I and IV are correct but II and III are wrong
 - d) II, III and IV are correct but I is wrong
- 10. The number of stomata present per cm² of a leaf is
 - a) 1000
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- b) Less than 100

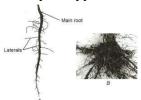
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- c) One million
- d) None of these

11.	Which one of the following series includes the orde	rs Ranales, Parietals and M	alvales?			
	a) Bicarpellatae b) Thalamiflorae	c) Calyciflorae	d) Disciflorae			
12.	Which pair of the following plants represents the co	•	•			
	a) <i>Euphorbia</i> and <i>Ziziphus</i>	b) <i>Citrus</i> and <i>Euphorbia</i>				
	c) Ziziphus and Bougainvillea	d) <i>Bougainvillea</i> and <i>Citi</i>				
13.	Amla belongs to family					
	a) Labiatae b) Fabaceae	c) Solanaceae	d) Euphorbiaceae			
14.	The leaves are modified into tendrils, hook, pitcher	and bladder in the following	ng plants respectively			
	a) Sweet pea, cat's nail, <i>Nepenthes, Utricularia</i>	b) Sweet pea, cat's nail, <i>l</i>	Utricularia,Nepenthes			
	c) Nepenthes, cat's nail, sweet pea, Utricularia	d) <i>Nepenthes</i> , sweet pea	, cat's nail, <i>Utricularia</i>			
15.	Fruits are formed in					
	a) Brassica b) Fern	c) <i>Cycas</i>	d) <i>Funaria</i>			
16.	Hypanthodium inflorescence is found in					
	a) <i>Ficus</i> b) Tulsi	c) <i>Cedrus</i>	d) <i>Calotropis</i>			
17.	I. Bear leaves and branches					
	II. Conduction of water and minerals					
	III. Storage of food					
	These are the functions of					
	a) Root b) Stem	c) Leaves	d) Root cap			
18.	Tulip belong to family					
	a) Asteraceae b) Liliaceae	c) Brassicaceae	d) Malvaceae			
19.	The floral formula is of $\operatorname{Br} \bullet \oplus \operatorname{QP}_{(3+3)} A_{3+3} \operatorname{G}(\underline{3})$ below	ongs to plant				
	a) <i>Allium cepa</i> b) Sunflower	c) <i>Cucurbita</i>	d) <i>Brassica</i>			
20.	Which of the following is not a characteristic feature of Fabaceae?					
	a) Descendingly imbricate, ten stamens, diadelphous, ovary superior					
	b) Sepals five, gamosepalous, imbricate aestivation, placentation marginal					
	c) Monocarpellary, ovary superior, style long, slight	tly bent at the apex				
	d) Corolla, five petals, polypetalous, anterior one la	rge and outermost				
21.	Wringed petioles are characteristic of					
	a) <i>Polygonum</i> b) <i>Citrus</i>	c) Neem	d) Banana			
22.	The triploid number of chromosomes of the first tax		_			
	chromosomes of the second taxon, while the diploid number of the third taxon is six time more than the					
	haploid number of the fourth taxon. Which one of the following shows the ascending order of the number					
	of chromosomes in their respective endosperm?					
	a) Oryza-Allium-Saccharum-Nicotiana	b) Allium-Oryza-Nicotiar				
	c) Nicotiana-Saccharum-Oryza-Allium	d) Saccharum-Oryza-Nic				
23.	The scutellum observed in a grain of wheat or maiz	e is comparable to which pa	art of the seed in other			
	monocotyledons?	S 41 1	l) pl			
2.4	a) Cotyledon b) Endosperm	c) Aleurone layer	d) Plumule			
24.	Colchicum autumnale belongs to) T '11'	1) N/L 1			
25	a) Solanaceae b) Fabaceae	c) Liliaceae	d) Malvaceae			
25.	Clinging roots are found in	a) Dadaataman	d) Compumin a			
26	a) Orchids b) <i>Trapa</i>	c) Podostemon	d) Screwpine			
26.	Single-seeded winged fruits is called a) Achene b) Cypsella	c) Samara	d) Caryopsis			
27.	The family containing mustard and its main charact	-	u) caryopsis			
41.	a) Brassicaceae - Tetramerous flowers, six stamens		iliqua tyne fruit			
		b) Brassicaceae - Pentramerous flowers, many stamens, pentacarpellary gynoecium, capsule type fruit c) Solanaceae - Pentamerous flowers, five stamens, bicarpellary gynoecium berry type fruit				
	d) Poaceae – Trimerous flowers, three stamens, mo		· · · ·			
	, = ========	F J DJ O O O O O O O O O O O O O O O O O	7 - F 7 F			

- 28. Which one of the following floral characters, is shared by *Ruscus* and ray florets of *Tridax*?
 - a) Nature of perianth
- b) Unisexuality
- c) Zygomorphy
- d) Number of stigmas

29. Identify the types of roots in the diagram *A* and *B*



- a) A-Fibrous;
- B-Tap
- b) A-Adventitious; B-Fibrous
- c) A-Fibrous;
 - **B-Adventitious**
- d) A-Tap;
- **B-Fibrous**
- 30. In a flowering plant, archesporium gives rise to
 - a) Wall and the tapetum

b) Only tapetum and sporogenous cells

c) Only the wall of the sporangium

- d) Both wall and the sporogenous cells
- 31. The fruit which develops from inflorescence is called
 - a) Achene
- b) Berry
- c) Etaerio
- d) Composite fruit

- 32. Caryopsis is found in
 - a) Sunflower
- b) Maize
- c) Pea

d) Datura

- The floral formula $\bigoplus Q^{\prime}K_{(5)}C_{(5)}A_{(5)}G_{(2)}$ is that of
- a) Tulip

33.

- b) Soybean
- c) Sunnhemp
- d) Tobacco
- 34. If a primary root continues to grow, the type of root system will be known as
 - a) Secondary
- b) fibrous
- c) tap

d) stilt

- 35. Largest flower is
 - a) Rafflesia arnoldi

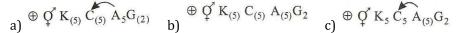
b) Helianthus annuus

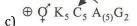
c) Welwitschia morabilis

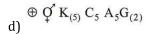
- d) Nelumbo nucifera
- 36. Pattern of arrangement of leaves on the stem or branches is called
 - a) Phyllotaxy
- b) Petiole
- c) Stipule
- d) Both (a) and (b)
- 37. Arrangement of sepals or petals with respect to the other members of same whorl is known as
 - a) Gamopetalous
- b) Polypetalous
- c) Aestivation
- d) Vernation

- 38. The reproductive unit of angiosperms is
 - a) Inflorescence
- b) Floral buds
- c) Flower
- d) Flower meristem

39. The correct floral formula of chilli is



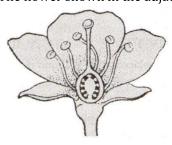




- 40. Velamen is found in
 - a) *Vanda*
- b) Rosa

- c) Viscum
- d) Santalum

41. The flower shown in the adjacent diagram is



- a) Homochlamydous, unisexual and hypogynous
- c) Dichlamydous, bisexual and hypogynous

42. Sucking roots are present in the planet

- b) Homochlamydous, bisexual epigynous
- d) Heterochlamydous, bisexual and epigynous

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	a) Betel	b) Cuscuta	c) Mangifera	d) Solanum
43.				
	a) Haptera	b) Anchoring roots	c) Clinging roots	d) Seminal roots
44.	The hardest part of drupe			
	a) Mesocarp	b) Endocarp	c) Pericarp	d) Epicarp
45.		lium inflorescence are rela		
	a) Nectar glands	b) Unisexual flower	c) Both (a) and (b)	d) None of these
46.	•	uestion number 174 belon	•	
	a) Euphorbiaceae	b) Musaceae	c) Solanaceae	d) Fabaceae
47.	A B C	ST S		
	In the diagram of types of	f placentation given above '	'A', 'B', 'C', and 'D' respective	ely represent
	a) Basal, axile, parietal ar	id free central	b) Free central, parietal, b	oasal and axile
	c) Axile, basal, parietal ar		d) Parietal, axile, free cen	tral and basal
48.	Geocarpic fruits are prod	uced by		
	a) Carrot	b) Onion	c) Groundnut	d) Watermelon
49.		s, superior ovary is seen in		
	a) <i>Allium</i>	b) <i>Oenothera</i>	c) <i>Solanum</i>	d) <i>Dolichus</i>
50.	Ginger multiples vegetati	• •		
	a) Bud	b) Tuber	c) Stem	d) Rhizome
51.	- -	lrooping of a bud are exam		
	a) Nyctinasy	311	b) Hyponasty	
	c) Seismonasty		d) Epinasty	
52.	Pappus is present in Com			
=0	a) Air pollination	b) Insect pollination	c) Water pollination	d) Air dispersal
53.			oral formula for a flower ha	-
			ed sepals, five united petal	s, stamens five and
		syncarpous with superior		
	a) \oplus Q' $K_{(5)}$ $C_{(5)}$ A_5 $G_{(2)}$		b) $\oplus Q^{\uparrow} K_{(5)} C_{(5)} A_{(5)} \underline{G}_{(2)}$	
	c) $\oplus Q^{\times} K_{(5)} C_{(5)} A_{(5)} G_{(2)}$		d) \oplus $Q' K_{(5)} C_{(5)} A_{(5)} G_{(2)}$	
54.	Guttation occurs through			
	a) Lenticels	b) Hydathodes	c) Periderm	d) Stomata
55.	Root is distinguishable fr			
	a) Having root hairs	b) Having root cap	c) Absence of nodes and internodes	d) All of the above
56.	Monothecous anther is th	e characteristic of		
	a) Malvaceae	b) Liliaceae	c) Brassicaceae	d) Solanaceae
57.	Which of the following pl	ants has haustorial roots?		
	a) Pea	b) <i>Trapa</i>	c) Lily	d) <i>Cuscuta</i>
58.	Type of aestivation show	n by <i>Pisum</i> is		
	a) Imbricate	b) Vexillary	c) Twisted	d) Quincuncial
59.	-	onocotyledonous seed is no	-	
	a) Maize	b) Wheat	c) Coconut	d) Orchid
60.	Perianth in the spikelet o			
	a) Lodicules	b) Sepals and petals	c) Glumes	d) Lemma and palea
61.	0 3	157.1.	N	D = 1.
	a) Asclepiadaceae	b) Labiatae	c) Umbelliferae	d) Rubiaceae

62.	Placentation is the arrangement of		
	a) Ovary in gynoecium		
	b) Ovules in ovary		
	c) Ovary in ovule		
	d) Fused carpels in gynoecium		
63.	Flower is always solitary when		
	a) Shoot bud transforms into flower	b) Shoot tip transforms in	
	c) Lateral shoot transforms into flower	d) Horizontal shoot trans	forms into flower
64.	Region of root present just above the root cap is called	•	
	a) Elongation	b) Meristematic activity	
	c) Root hair	d) Maturation	
65.	Pineapple (ananas) fruit develops from a		
	a) Unilocular polycarpellary flower		
	b) Multipistillate syncarpous flower		
	c) Cluster of compactly borne flowers on a common	axis	
	d) Multilocular monocarpellary flower		
66.	The morphological nature of the organ, which helps	in climbing in <i>Cardiosperm</i>	<i>num</i> , is
	a) Inflorescence axis b) Leaf apex	c) Terminal bud	d) Axillary bud
67.	Which of the following is/are not characteristic feature.	ires of Asteraceae?	
	I.Cypsela type of fruit		
	II.Syngenesious stamens		
	III.Ovary bicarpellary and superior		
	IV.Placentation marginal		
	V.Head type of inflorescence		
	a) II, III and IV only b) III and V only	c) III and IV only	d) I and II only
68.	When axillary buds or terminal buds of stem gets mo	odified into woody straight	and pointed structure, it is
	known as		
	a) Thorns b) Tendrils	c) Nodes	d) Internodes
69.	Drupe contains	17111011	
	a) Stony endocarp b) Stony mesocarp	c) Edible epicarp	d) Edible endocarp
70.	Which one of the following statements is correct?		
	a) Seeds of orchids have oil-rich endosperm	b) Placentation in primro	
	c) Flower of tulip is a modified shoot	d) In tomato, fruit is a cap	
71.	A plant has an androecium with monadelphous stam	ens, monothecous and ren	iform anthers. They corolla
	exhibits contorted aestivation. The plant could be		
	a) Rauwolfia b) Vinca	c) <i>Nerium</i>	d) <i>Hibiscus</i>
72.	Identify from the following plant parts, the major con		
	a) Stem b) Root	c) Fruits	d) Leaves
73.	Scutellum in a caryopsis represents		
	a) Outermost layer of endosperm		
	b) A sheath that protects the radical		
	c) The place where the seed is attached to rephe		
	d) A cotyledon		
74.	A monocarpic plant is one, which		
	a) Has only one carpel	b) Flowers once in a lifeti	
	c) Produces only one seed	d) Produces only one fruit	t
75.	Pericarp may be or can be differentiated into		D 411 4
	a) Epicarp b) Mesocarp	c) Endocarp	d) All of the above
76.	Identify the type of inflorescence in the given diagram	m	



	a) Cyanthium	b) Umbel	c) Verticillaster	d) Spikelet		
77.	Identify A , B and C in th	ie given diagram				
	A B					
	(\$2)					
	a) A-Plumule, B-Cotyled	on, C-Radicle	b) A- Radicle, B-Cotyled	lon, C-Plumule		
	c) A-Cotyledon, B-Plum		d) A-Cotyledon, B-Radi			
78.	Fruit is	·	, ,	·		
	a) Mature ovary develop	oed before fertilisation				
	b) Ripened ovary develo					
	c) Ripened ovary develo	-				
	d) Mature undeveloped					
79.	Flowers are zygomorph	=				
	a) Gulmohur	b) Tomato	c) Datura	d) Mustard		
80.	Pneumatophores are po		>	,		
	a) Geotropic	b) Phototropic	c) Aerotropic	d) Rheotropic		
81.	•	divided lamina broken up ii				
	a) Petiole	b) Phyllotaxy	c) Compound leaf	d) Simple leaf		
82.	The smallest Angiosperi		O A TOTAL A	, 1		
	a) <i>Wolffia</i>	b) <i>Ranunculus</i>	c) <i>Rafflesia</i>	d) <i>Stellaria</i>		
83.	Fibrous root system orig		apita-011	·· , · · · · ·		
	a) Root	b) Stem	c) Leaves	d) Lamina		
84.	Stilt roots originate fron		,	,		
	a) Stem	b) Secondary root	c) Leaf	d) Primary root		
85.	The inflorescence in <i>Oct</i>	•	,	, ,		
	a) Cyathium	b) Verticillaster	c) Hypanthodium	d) Raceme		
86.	The leaves in <i>Utricularia</i>	•	<i>y</i> 21	,		
	a) Hooks	b) Tendrils	c) Bladders	d) Pitchers		
87.	Inflorescence is the arra		,	,		
	a) Leaves on the floral a	-	b) Buds on the floral ax	ris		
	c) Flowers on the floral		d) Petioles on the floral			
88.	In the flowers of a plant, the ovarian part is fused, but styles and stigmas are free. Its ovary becomes					
	-	down of partition wall and t				
	plant.					
	a) <i>Dianthus</i>	b) <i>Abutilon</i>	c) <i>Nymphaea</i>	d) <i>Michelia</i>		
89.	At the two ends of the en	mbryonical axis				
	a) Radicle is present	b) Plumule is present	c) Both (a) and (b)	d) None of these		
90.	Pneumatophores are pr	esent in				
	a) Mangroves	b) Xerophytes	c) Hydrophytes	d) Lithophytes		
91.	Cuticle is absent in					
	a) Mesophytes	b) young roots	c) mature stems	d) Leaves		
92.	Identify the mismatch a	mong the following pairs of	trees and families.			

	a) Psidium gujava -	Myrtaceae	b) Swietenia mahogni -		
	c) Pistacia vraa -	Anacardiaceae	d) Murraya koenigii -	Meliacae	
93.	Tallest angiosperm is				
	a) <i>Eucalyptus</i>	b) Red wood tree	c) Oak tree	d) <i>Pinus</i>	
94.		nat has contractile roots, is			
	a) Rhizome	b) Corm	c) Stem tuber	d) Bulb	
95.	==	ent in the topmost position			
	a) Inferior	b) Epigynous	c) Perigynous	d) Hypogynous	
96.	Which is odd one?				
	a) China rose	b) Maize	c) Mango	d) Sunflower	
97.	Insectivore plants such as	s pitcher plant, venus fly tra	ap have		
	a) Modified leaf	b) Modified stem	c) Modified root	d) All of the above	
98.	Select the correct stateme	ents.			
	I. From the region of elon	gation, some of the epideri	nal cells from root hairs.		
	II. Pneumatophores are s	een in <i>Rhizophora</i> .			
	III. Adventitious roots are	e seen in the banyan tree.			
	IV. Maize and sugarcane l	have prop roots.			
	a) I and IV	b) I, III and IV	c) III and IV	d) II and III	
99.	Hesperidium of orange is	a modification of			
	a) Berry	b) Drupe	c) Pome	d) Aggregate fruit	
100	. Which of the following st	atements are correct?			
	I.When a fruit develops fr	om the inflorescence, it is	composite.		
	II.Mesocarp is the edible	part in apple.	>		
	III.Gynobasic style is seer	n in <i>Ocimum</i> .			
	IV.Hypanthodium is a spe	ecial type of inflorescence f	ound in <i>Euphorbia</i> species	•	
	a) I and IV are correct		b) I and III are correct		
	c) I and II are correct		d) II, III and IV are correc	ct	
101	. <u>G(2)</u> represents	WOLLIS EDILL	'ATION		
	a) Gynoecium, bicarpella	ry, apocarpous, superior	MITOH		
	b) Gynoecium, bicarpella				
	c) Gynoecium, bicarpella				
	d) Gynoecium, bicarpella	• • •			
102	Potato is a modification of				
	a) Stem	b) Rhizome	c) Root	d) Leaf	
103	. Non-endospermic seeds a	,	.,	.,	
	a) Castor	b) Rice	c) Wheat	d) Bean	
104	. Respiratory roots are fou	•	,	,	
	a) <i>Rhizopus</i>	b) Orchids	c) <i>Vallisneria</i>	d) Mangrove plants	
105	. Parachute mechanism of		-,)B F	
100	a) Sunflower	b) <i>Antirrhinum</i>	c) Mango	d) Apple	
106	. I. Epicarp is thin	oj minimum	c) Mango	и) прри	
100	II. Mesocarp is fleshy and	edible			
	III. Endocarp is strong ha				
	These are the probable fe				
	a) Coconut	b) Brinjal	c) Almond	d) Mango	
107	. <i>Dahlia</i> and <i>Asparagus</i> p		oj minona	a) mango	
107					
102	a) Stilt roots b) Fusiform roots c) Tuberous roots d) Fasciculated roots				
	108. Which one of the following is correctly matched pair of a certain plant family and its one example?				
100		ng is correctly matched pair			
100	 Which one of the following a) Malvaceae-Cotton c) Cucurbitaceae-Orange 		of a certain plant family a b) Leguminosae-Mango(d) Brassicaceae-Wheat		

- 109. Carthamus belongs to family
 - a) Compositae
- b) Gramineae
- c) Liliaceae
- d) Solanaceae

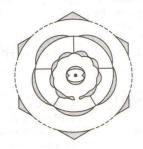
- 110. Aggregate fruit develops from
 - a) Multicarpellary, apocarpous ovary
- b) Multicarpellary ovaryd) Monocarpellary ovary
- c) Multicarpellary, syncarpous ovary
- a) Bracteate
- b) Involucre
- c) Petaloid
- d) Polysepalous

- 112. A fibrous root system is excellent for
 - a) food storage

- b) nitrogen fixation
- c) absorbing water from deeper layer of soil

111. Bracts enclosing a cluster of flowers are known as

- d) providing good anchorage for the plant
- 113. The floral formula of the given floral diagram is



a) Br $Q^{\prime}K_{pappus}C_{(5)}A_{0}G_{(\overline{2})}$

b) Br $Q^{\prime}K_{pappus}\overline{C_{(5)}A_{(5)}}G_{(1)}$

c) Br $Q^{\prime}K_{pappus}\overline{C_{(5)}A_{(5)}}$, $G_{(\overline{2})}$

- d) Br $Q'K_{pappus}\overline{C_{(5)}A_{(5)}}$, $G_{(2)}$
- 114. Lateral branches with short internodes and each nodes bearing a rosette of leaves above and a tuft of roots below is found in aquatic plants like *Pistia* and *Eichhornia*. These lateral branches are called
 - a) Suckers
- b) Offsets
- c) Stolons
- d) Rhizome

- 115. Cereals mostly belongs to the family
 - a) Cruciferaceae
- b) Poaceae
- c) Brassicaceae
- d) Asteraceae

- 116. Edible part if mango is
 - a) Endocarp
- b) Receptacle
- c) Epicarp
- d) Mesocarp

- 117. Edible part of tomato is
 - a) Epicarp

b) Pericarp and placenta

c) Mesocarp

- d) Thalamus
- 118. In banana, which of the following part is edible?
 - a) Epicarp
- b) Mesocarp
- c) Endocarp
- d) Both (a) and (c)

- 119. Sorosis is found in
 - a) Jack fruit
- b) Mulberry
- c) Fig

d) Both (a) and (b)

- 120. Ovary is half-inferior in the flowers of
 - a) Guava
- b) Plum

- c) Brinjal
- d) Cucumber

- 121. In Amorphophallus, vegetative reproduction occurs through
 - a) Rhizome
- b) Corm
- c) Spores
- d) Conidia
- 122. Flowers, in which only one set of essential organ is present are said to be
 - a) Bisexual
- b) Monoecious
- c) Dioecious
- d) Unisexual
- 123. Which one of the following conditions is seen in the roots of a plant having submerged assimilatory roots and spongy petioles?
 - a) Triarch
- b) Monarch
- c) Tetrarch
- d) Diarch
- 124. How many types of inflorescence are present in angiosperm depending on whether the apex gets converted into a flower or continuous to grow?
 - a) Three type
- b) Four type
- c) Five type
- d) Two type
- 125. Which one of the following families shoes both freedom and fusion in four successive whorls of the flower from exterior in different members?

- a) Malvaceae
- b) Solanaceae
- c) Asteraceae
- d) Liliaceae

- 126. Which of the following pairs is not correct?
 - a) Corymb-Candytuft

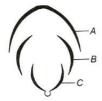
b) Capitulum-Sunflower

c) Catkin-Mulberry

d) Raceme-Wheat

- 127. Haustoria are found in
 - a) Cuscuta
- b) Vanda
- c) Heritiera
- d) Dahlia

128. Identify the type of petals in the given diagrams (A, B and C)



- a) A-Wings, B-Keel, C-Standard
- b) A-Keel, B-Wings, C-Standard
- c) A-Standard, B-Wings, C-Keel
- d) A-Standard, B-Keel, C-Wings
- 129. Regions of root from the root tip to base are
 - a) Region of maturation \rightarrow Region of elongation \rightarrow Region of meristematic activity
 - b) Region of elongation \rightarrow Region of maturation \rightarrow Region of meristematic activity
 - c) Region of meristematic → Region of elongation → Region of maturation
 - d) Region of dividing \rightarrow Region of maturation \rightarrow Region of elongation
- 130. Endosperm is consumed by developing embryo in the seed of
 - a) Coconut
- b) Castor
- c) Pea

d) Maize

- 131. \bigoplus $\not \subseteq$ P_{3+3} or $(3+3)A_{3+3}$ $\underline{G}_{(3)}$ is the floral formula of
 - a) Malvaceae
- b) Solanaceae
- c) Cruciferae
- d) Liliaceae
- 132. Which of the following families has the floral formula $K_{(5)}C_{(5)}A_{(\infty)}G_{(5)}$?
 - a) Compositae
- b) Cruciferae
- c) Leguminosae
- d) Malvaceae

- 133. Seedless banana is
 - a) Parthenocarpic fruit
- b) Multiple fruit
- c) Drupe fruit
- d) True fruit
- 134. The bladder of *Utricularia* and pitchers of *Nepenthes* are modification of
 - a) Stems
- b) Leaves
- c) Roots
- d) Flowers

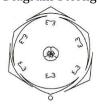
- 135. The main function (s) of root is
 - a) Absorption of water and minerals
 - b) To provide proper anchorage of plant
 - c) To store reserve food material and synthesis of plant growth regulators
 - d) All of the above
- 136. Examples of drupe fruit is/are
 - a) Mango
- b) Coconut
- c) Both (a) and (b)
- d) None of these
- 137. The plumule and radicle are enclosed in sheath which are called
 - a) Aleurone layer, scutellum

b) Aleurone layer, coleoptile

c) Aleurone layer, coleorhiza

d) Coleoptile, coleorhiza

138. Diagram belongs to

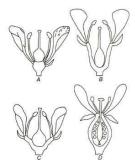


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a) Coffee plant (Solanaceae)

b) Vinea plant (Rutaceae)

c) Potato plant (Solanaceae)		d) Onion plant (Liliaceae)	
139. The reticulate venation is shown by			
I. Smilax (monocot) II. Colocasia	I. Smilax (monocot) II. Colocasia (monocot)		
III. Gram (dicot)			
Select the correct combination from	n the given option	าร	
a) I and II b) II and	_	c) III and I	d) I, II and III
140. Nutrition is shown by		-,	, -,
a) Root b) Stem		c) Tendril	d) None of these
141.		•) •••••	,
The above inflorescence is a/an			
a) Cyathim b) Dicha	sial cyme	c) Umbel	d) Panicle
142. Perianth is the condition in which			
a) Calyx and corolla are fused		b) Calyx is present but co	rolla is absent
c) Corolla is present but calyx is ab	sent	d) Calyx and corolla are in	n distinct
143. Identify the correct order of the fol	lowing four zone:	s in the root from apex to b	ase.
I. Mineral absorption zone		•	
II.Meristematic zone	S. J	>	
III.Maturation zone			
IV.Water absorption zone	~		
a) II, III, IV and I b) IV, III	. II and I	c) II, IV, I and III	d) I, II, IV and III
144. Study of fruits is called			, -,,
a) Palynology b) Pomo	logy	c) Embryology	d) Morphology
145. Fleshy fruits with stony endocarp a		e) =a.) = B)	,
a) Capsules b) Berri		c) Pomes	d) Drupes
146. Identify flower parts A to D in the			a) Brapes
all and the second of the seco	given alagrams co	rreedy	
a) A-Corolla, B-Calyx, C-Androecius	n, D-Gynoecium		
b) A-Calyx, B-Corolla, C-Androecius	n, D-Gynoecium		
c) A-Calyx, B-Corolla, C-Gynoecium	, D-Androecium		
d) A-Corolla, B-Calyx, C-Gynoecium			
147. Which of the following plants has t		rs like zygomorphic flower	, vexillary aestivation,
diadelphous androecium and marg			,
a) <i>Pisum</i> b) <i>Bella</i>	=	c) <i>Brinjal</i>	d) <i>Asparagus</i>
148. Leaf blade is spinous in case of		-,	J F
a) <i>Nerium</i> b) <i>Zizip</i> .	hus	c) <i>Argemone</i>	d) <i>Cannabis</i>
149. Identify the position of gynoecium		· -	a, camazio
211. Identify the position of Symbolium	die biven anabi		



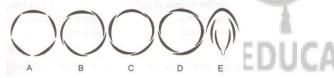
- a) A-Perigynous, B-Perigynous, C-Hypogynous, D-Epigynous
- b) A-Epigynous, B-Perigynous, C-Hypogynous, D-Perigynous
- c) A-Hypogynous, B-Perigynous, C-Perigynous, D-Epigynous
- d) A-Hypogynous, B-Epigynous, C-Perigynous, D-Perigynous
- 150. In floral formula, Br stands for
 - a) Bracteate
- b) Bracteolate
- c) Bearing flower
- d) Bud

- 151. Viscum is a
 - a) Total root parasite

b) Total stem parasite

c) Partial root parasite

- d) Partial stem parasite
- 152. Generally, the parallel venation is found in
 - a) Gymnosperm
- b) Pteridophytes
- c) Monocotyledons
- d) Dicotyledons
- 153. Main axis continues to grow, the flowers are borne laterally in acropetal succession. This is a characteristic of which type of inflorescence?
 - a) Cymose
- b) Racemose
- c) Either (a) or (b)
- d) Both (a) and (b)
- 154. The following diagrams represent the types of aestivation in corolla. Identify the correct combination of labeling.



- a) A-Valvate, B-Twisted, C-Vexillary, D-Imbricate
- b) A-Valvate, B-Vexillary, C-Twisted, D-Imbricate
- c) A-Vexillary, B-Imbricate C-Twisted, D-Valvate,
- d) A-Valvate, B-Twisted, C-Imbricate D-Vexillary
- 155. I. Petals
 - II. Usually brightly coloured
 - III. May be free
 - IV. May be fused

Features given above represents

- a) Calyx
- b) Corolla
- c) Sepals
- d) Androecium

- 156. Edible part of the apple is
 - a) Mesocarp
- b) Calyx
- c) Thalamus
- d) Pericarp

- 157. Tuberous roots are found in
 - a) Beta vulgaris
- b) Daucus carota
- c) *Ipomoea batatas*
- d) Raphanus sativus

- 158. Capitulum inflorescence is found in
 - a) Compositae (Asteraceae)

b) Cruciferae (Brassicaceae)d) Malvaceae

c) Solanaceae

- uj maiva
- 159. Floating roots are the characteristic feature of
 - a) Viscum
- b) Cuscuta
- c) Vanda
- d) Jussiaea

- 160. Which of the following are floral characters of Malvaceae?
 - a) Pedicellate, bracteates, hermaphrodite, tetramerous, actinomorphic complete and superior ovary

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c) Pedicellate, hermaphrodite, zygomorphic, comple	=	
d) Jointed pedicel, bracteate, bracteolate, hermaphro	odite, pentamerous, actinor	norphic, complete and
superior ovary		
161. Inflorescence axis is called		
a) Rachis b) Pedicel	c) Petiole	d) Peduncle
162. Tetradynamous condition is found in		
a) <i>Hibiscus rosa-sinensis</i>	b) <i>Petunia hybrid</i>	
c) <i>Helianthus annuus</i>	d) <i>Brassica campestris</i>	
163. The photosynthetic or assimilatory roots are observ	ed in	
a) Banyan b) <i>Vanda</i>	c) Cuscuta	d) Tinospora
164. Which of the following represents the floral character	ers of Liliaceae?	
a) Six tepals, zygomorphic, six stamens, bilocular ov	ary, axile placentation	
b) Tetramerous, actinomorphic, polyphyllous, unilog		on
c) Trimerous, actinomorphic, polyandrous, superior		
d) Bisexual, zygomorphic, gomophyllous, inferior ov		
165. Gynobasic style is the characteristic features of	J , 1	
a) Malvaceae b) Lamiaceae	c) Ranunculaceae	d) Brassicaceae
166. Uniparous, biparous and multiparous systems of bra		•
a) <i>Mirabilis, Datura</i> and vine	b) <i>Saraca, Mirabilis</i> and <i>E</i>	=
c) Vine, <i>Polyalthia</i> and <i>Saraca</i>	d) <i>Casuarina, Saraca</i> and	-
167. Smallest region of the root is	uj casuarma, saraca and	Croton
a) Root cap	b) Region of elongation	
The state of the s	d) Region of maturation	
c) Region of meristematic activity	uj Region of maturation	
168. Prop roots are the modification for	a) Starage food	d) In anagaing maga
a) Support b) Respiration	c) Storage food	d) Increasing mass
169. Which of the following has epiphytic features and ae	riai and flattened photosyr	itnetic roots, without
formal organization of stem and leaves?	2 m	15 77 7
a) <i>Tinospora</i> b) <i>Trapa</i>	c) Taeniophyllum	d) <i>Vanda</i>
170. Parts of the plants were observed. Structure-A devel		
contact with the soil. Structure-B develops from und	_	
aerial and produces roots on its lower surface. Ident		
a) Sucker, stolon b) Stolon, runner	c) Stolon, sucker	d) Runner, stolon
171. Trimerous flower, superior ovary and axile placenta		
a) Liliaceae b) Cucurbitaceae	c) Solanaceae	d) Compositae
172. The capitulum type of inflorescence is found in		
a) Marigold b) <i>Salvia</i>	c) <i>Euphorbia</i>	d) Jasmine
173. Identify the type of inflorescence in the given diagra	ms (A and B)	
& 0 & 0 & 8		
A B		
a) A-Racemose; B-Cymose	b) A-Cymose; B-Racemos	e
c) A-Cymose; B-Cymose	d) A-Racemose; B-Racem	ose
174. Roots are absent in	a) II Raccinosc, B Raccini	
174. Roots are absent in	aj 11 racemese, 2 racem	
a) Wolffia b) Podostemon	c) Pistia	d) <i>Lemna</i>
a) Wolffia b) Podostemon		d) <i>Lemna</i>
		•

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b) Compound spike, flowers bracteates, bracteolate, incomplete, bi or unisexual and hypogynous

			15 791		
	c) Tertiary root system d) Fibrous root system				
176.		ere observed. Both develop			
	gynoecia. In fruit. A, pericarp and seed coat are free. It liberated the seeds only after the disintegration of				
	the pericarp. Fruit 'B' deh	isced dorsiventrally librati	ng the seeds. In the followir	ng, the former in the pair	
	represents 'A' and latter 'I	B'. to which types of fruits '	A' and 'B' respectively belo	ng?	
	a) Achene and legume		b) Nut and follicle		
	c) Cypsella and siliqua		d) Pyxidium and septicida	l capsule	
177.	In china rose, the inflores	cence is			
	a) Cymose	b) Capitulum	c) Racemose	d) Solitary axillary	
178	· ·	aestivation of sepal's/petal	•	•	
	covered by previous one?		O	O	
	a) Valvate	b) Twisted	c) Imbricate	d) Quincuncial	
179		o are the resultant of stipu	-	,	
1,,,	I.Spines in <i>Ziziphus</i> .	o are the resultant of stipu	ie mounications.		
	II. Tendrils in <i>Smilax</i>				
	III.Tendrils in <i>Nepenthes</i> .				
	IV.Spines in <i>Argemone</i> .				
		2			
	V.Thorns in <i>Bougainvelle</i>		a) II and V	d) III and V	
100	a) I and III	b) I and II	c) II and V	d) III and V	
180.	identity the type of phylic	taxy in the given diagrams	(A, B and C)		
			>		
	a) A-Whorled, B-Opposite	· C-Alternate	b) A-Whorled, B-Alternate	· C-Onnosite	
	c) A-Alternate, B-Opposit		d) A-Alternate, B-Whorled	= =	
101	When stigma shows feath		d) Il filternate, b whoriet	i, a opposite	
101.	a) Plumose	b) Cymose	c) Globulose	d) Racemose	
192		the single ovary is said to b	•	u) Nacemose	
102.	a) Composite type	b) Simple type		d) None of these	
102	. Which of the following is		c) Aggregate type	d) None of these	
103.			a) Carre	d) Dhydla da da	
104	a) Cladode	b) Phyllode	c) Corm	d) Phylloclade	
184.	_	d the veinlets in the lamina		D.D. et 1	
405	a) Phyllotaxy	b) Inflorescence	c) Venation	d) Petioles	
185.	Aleurone layer is rich in	13.6	.	22.77	
	a) Lipid	b) Starch	c) Protein	d) Fatty acid	
186.	$Ebr \not Q^{i}K_{(5)}C_{(5)}A_{5}G_{\underline{(2)}}$	s the floral formula of			
	a) Solanaceae	b) Asteraceae	c) Malvaceae	d) Cruciferae	
187	Cyathium inflorescence is	found in			
	a) <i>Morus</i>	b) <i>Dorstenia</i>	c) <i>Ficus</i>	d) <i>Euphorbia</i>	
188.	Cereals are mostly belong	to family			
	a) Cruciferae	b) Brassicaceae	c) Poaceae	d) Asteraceae	
189.	Given floral diagram repr	esents			
	Con Sold Market Con Sold Marke				

				Opius Luucutio
100	a) Compositae family Function of obturator on	b) Malvaceae family	c) Cruciferae family	d) Leguminosae family
190.	a) Obstruct the path	illicropyle is to	b) Direct the growth of po	allon tuho
	c) Help in fusion		d) Dissolve the wall of po	
101		N.	d) Dissolve the wan of po	nen tube
171	Perianth is represented b		a) Ladigulas	d) Dalaa
102	a) Glumes	b) Lemma	c) Lodicules	d) Palea
192	Radish is modified root a	· · · · · · · · · · · · · · · · · · ·	-) Cil	J) Tl
102	a) Napiform root	b) Fusiform root	c) Conical	d) Tuberous root
193	•	s, cotyledons are often flesl	•	
	= = = = = = = = = = = = = = = = = = = =	donous seeds are endosper		
	•	nous seeds are non-endosp		
		ledonous seeds have fleshy	cotyleaons	
	Select the correct statement		-) All III	-1) A 11 177
101	a) All except I	b) All except II	c) All except III	d) All except IV
194.	Potato family is called	13.75	2 0 1	1) P
40=	a) Cruciferae	b) Brassicaceae	c) Solanaceae	d) Poaceae
195.	Epipetalous or epiphyllou	us condition is shown by		
	a) CA			
	b) PA			
	c) (a) or (b)			
	d) Both (a) and (b)			
196	Rhizome, which grows ve			
	a) Corms	b) Stolon	c) Bulbils	d) Root stock
197		es of leaves in the same plai		
	a) Phyllody	b) Phylloclade	c) Heterophylly	d) Heterosis
198		important fibre yielding pl	-	
	a) Malvaceae	b) Solanaceae	c) Cruciferae	d) Poaceae
199	Spadix is an inflorescence		TATION	
	a) Monocots	b) Dicots	c) Both (a) and (b)	d) None of these
200	Phylloclades are			
	a) Green, photosynthetic,	, succulent stems of indefin	ite growth	
	b) One internode long ste	ems		
	c) Leaf modifications			
	d) None of the above			
201	Identify the family repres	sented in given floral diagra	am	
	a) Brassicaceae	b) Poaceae	c) Asteraceae	d) Fabaceae
202	Bright colour of petals is	=		
	a) Chloroplast	b) Anthocyanin	c) Chromoplast	d) Leucoplast
203	Gynandrous condition sh			
	a) Adhesion of stamens v	_		
	b) Adhesion of stamens v	-		
		roughout their whole lengt	h	
	d) All anthers are united	except filament		

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204. The direct elongation of radicle leads to the formation of

d) Tertiary root a) Stem b) Primary root c) Secondary root 205. I. Members of calyx are called ... A... . II. United members of calyx are called ...B.... III. Free members of calyx are called ...C.... a) A-petals, B-gamosepalous, C-polyseptalous b) A-sepals, B-gamosepalous, C-polysepalous c) A-sepals, B-polysepalous, C-gamosepalous d) A-petals, B-polysepalous, C-gamosepalous 206. Name the type of aestivation when sepals or petals in a whorl just touch one another at the margin without overlapping a) Twisted aestivation b) Valvate aestivation c) Imbricate aestivation d) Vexillary aestivation 207. Pome fruit is found in a) Mango b) Apple c) Litchi d) Peach 208. What type of placentation is seen in sweet pea? a) Basal b) Axile c) Free central d) Marginal 209. Vessels and companion cells are characteristic of a) Angiosperm b) Gymnosperm c) Pteridophyta d) Fern 210. Which of the following is not a character of a monocot? a) Presence of a single seed leaf b) Endosperm present in the mature seed c) Leaves with parallel veins and smooth edges d) Floral parts as multiples of four or five 211. In floral formula, 'K' and 'C' stands for b) K-Calyx, C-Corolla a) K-Corolla, C-Calyx c) K-Calyx, C-Calyx d) K-Corolla, C-Corolla 212. Drupes are called stony fruits because they have hard b) Mesocarp a) Epicarp and mesocarp

c) Mesocarp and endocarp

d) Endocarp

213. Study the following statements. I.Food is stored in the leaf bases.

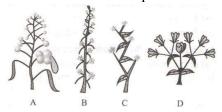
II.Buds develop from leaf apices.

III. Presence of tunicated bulb.

Identify the correct combination with reference to Scilla.

- a) I, II and III are correct b) I and II are correct
- c) I and III are correct
- d) II and III are correct

- 214. Identify the wrong expression from the following statements.
 - a) A plant that bears male, female and bisexual flowers is polygamous
 - b) An actinomorphic flower can be dissected into two equal halves from any plane
 - c) Superior ovary is found in hypogynous flowers
 - d) That side of the flower towards the bract is called the posterior side
- 215. Find out the correct sequence of labeling of diagram given below.



- a) A-Spike B-Raceme C-Dichasial cyme D-Monochasial cyme
- b) A-Raceme B-Spike C-Monochasial cyme D-Dichasial cyme
- c) A-Dichasial cyme B-Monochasial cyme C-Raceme D-Spike
- d) A-Spike B-Dichasial cyme C-Monochasial cyme D-Raceme
- 216. 120° phyllotaxy is found in
 - a) Distichous condition

b) Tristichous condition

c) Monostichous condition	d) None of the above	
217. The binomial of sunnhemp is	a) Chraina mar	d) Araghia hymograf
a) Crotalaria juncea b) Erythrina indica	c) <i>Glycine max</i>	d) <i>Arachis hypogeal</i>
218. In which of the following types of fruits, dorsiventr I. Legume	al defiscence takes place?	
I. Legume II. Follicle		
III. Siliqua		
IV. Capsule		
a) I and III b) I and II	c) II and III	d) II and IV
219. Green stems of unlimited growth, which have taken	•	•
a) Phylloclades b) Tendrils	c) Modified shoot	d) Inflorescence
220. Desert grasses often roll their leaves due to presence	•	d) innorescence
a) Oily surface b) Bulliform cells	c) Spines	d) None of these
221. Which of the following pairs of family's posses poll		u) None of these
a) Orchidaceae and Apocynaceae	b) Orchidaceae and Asc	leniadaceae
c) Asclepiadaceae and Mimosaceae	d) Asclepiadaceae and A	•
222. In Nepenthes (pitcher plant), pitcher is the modific		ipocy naceae
a) Leaf petiole b) Leaf base	c) Leaf lamina	d) All of these
223. Identify <i>A</i> , <i>B</i> and <i>C</i> in the given diagram	c) Bear lamma	a) in or these
225 rachery 1, 2 and 5 in the given diagram		
A		
В		
)c		
a) A-Region of maturation, B-Region of elongation,	.C-b) A-Region of elongation	on, B-Region of maturation, C-
Region of meristemastic activity	Region of meristema	
c) A-Region of meristematic, B-Region of maturation		
C-Region of elongation activity	C-Region of maturati	
224. <i>Rauwolfia serpentina</i> belongs to family	O	
a) Apocynaceae b) Solanaceae	c) Liliaceae	d) Fabaceae
225. Family-Podostemaceae is placed under the series		
a) Multivulatae Aquaticae	b) Microembryeae	
c) Daphnales	d) Unisexuales	
226. The flower, in which the gynoecium occupies the h	•	amus leaving other parts
below is called		2
a) Hypogynous b) Perigynous	c) Epigynous	d) None of these
227. Stem is modified into cladode in		
a) Casuarina b) Asparagus	c) Opuntia	d) Euphorbia
228. A root was described as adventitious root because	it	
a) Arose from plumule	b) Was used variously f	or storage of food
c) Was swollen	d) Was growing in mars	shy place
229. Commercial banana (Musa paradisica) is a		
a) Haploid b) Diploid	c) Triploid	d) Tetraploid
230. The leaves of <i>Smilax</i> and <i>Colocasia</i> show		
a) Parallel venation b) Reticulate venation	c) Forward venation	d) Lateral venation
231. Select the characters, which are not applicable to the	he family-Solanaceae?	
I.Epipetalous and syngenesious anthers		
II.Bicarnellary and syncarpous ovary		

III.Oblique ovary with	-		
IV.Stamens six, arrang			
	pous and inferior ovary		
a) II and III only	b) I, IV and V only	c) II, IV and V only	d) I and III only
232. Percentage (%) sign i			
a) Actinomorphic flow	ver b) Zygomorphic flower	c) Incomplete flower	d) Epigynous flower
233. Dry indehiscent single	e-seeded fruit formed from bi	carpellary syncarpous infe	rior ovary is
a) Caryopsis	b) Cypsela	c) Berry	d) Cremocarp
234. Which of the followin	g have succulent root?		
a) <i>Opuntia</i>	b) <i>Aloe</i>	c) <i>Agave</i>	d) <i>Asparagus</i>
235. Modified shoots when	ein the shoot apical meristem	changes to floral meristen	n is called
a) Flower	b) Inflorescence	c) Shoot buds	d) Both (a) and (c)
236. The plant having mon	adelphous stamens and axile	placentation is	
a) Lemon	b) Pea	c) Tomato	d) China rose
237. Consider the followin	g statements.		•
	cence, the flowers are brone i	in a basipetal order.	
II.Epigynous flowers a		•	
III.In brinjal, the ovar	——————————————————————————————————————		
Of these statements			
a) I and II are true bu	t III is false	b) I and III are true but I	I is false
c) I and II are false bu		d) I and III are false but	
•	nination, the structure help to	•	
a) Epicotyl	b) Hypocotyls	c) Plumule	d) Radical
239. Tendrils in plants are			,
a) Convergent evoluti		b) Radiation	
c) Divergent evolution		d) Co-evolution	
	n of seed dispersal is seen in	a) do evolution	
a) Poppy	b) <i>Helianthus</i>	c) <i>Plumbago</i>	d) Lotus
	ing, petiolar leaf tendril is fou		a) Lotas
a) <i>Clematis</i>	b) <i>Citrus</i>	c) <i>Parkinsonia</i>	d) <i>Trapa</i>
242. Modified undergroun		c) Tarkinsoma	u) ITapa
a) Stolon	b) Offset	c) Sucker	d) Corm
•	desirable character for annul	,	d) Corm
a) It reduces the vigor		crop plants:	
	e stored under normal condit	ions for the next season	
•		dons for the next season	
c) The seeds exhibit le			
	the fertility of the plant		
244. Leaves of dicotyledon		a) Datiaulata wanatian	d) Danallal manation
a) Oblique venation	b) Lateral venation	c) Reticulate venation	d) Parallel venation
245. Multicostate parallel		.) 4	D. Mana (Cons
a) Gras, palm	b) <i>Dalbergia</i>	c) Argemone	d) <i>Mangifera</i>
	al leaves, stipulate and parall	el venation leaves and cym	e or umbel inflorescence are
the characteristics of	13.7.11	S. 4	12.77
a) Poaceae	b) Liliaceae	c) Asteraceae	d) Fabaceae
	ants of nucellus are also persi	stent.	
This residual, persiste			
a) Pericarp	b) Perisperm	c) Chalazosperm	d) Mesosperm
	ing, parthenocarpy makes no		
a) Bnana	b) Orange	c) Lemon	d) Pomegranate
249. In Duranta, the nature	e of vasculated defensive stru	ctures represent the modifi	ication of

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a) Axillary bud as in <i>Bougainvillea</i>	b) Terminal bud as in <i>Car</i>	issa
c) Stipules as in <i>Acacia</i>	d) Apical bud as in Artabo	otrys
250. In a flower, there are five unequal petals. The poster	ior petal is the largest. The	two anterior petals are
partially fused to form a boat-shaped structure. The	two lateral petals are small	ler than the posterior petal.
Which one of the following characters is not associate	ted with such a flower?	
a) The aestivation of the petals is descendingly imbr		
b) The odd sepal is anterior		
c) The pollination is by piston mechanism		
d) The number of carpels is more		
251. Water and minerals absorption from soil are the fun	ction of	
a) Root hair b) Root cap	c) Stilt root	d) Prop roots
252. Gynoecium in the members of family-Leguminosae i		u) 110p 100t3
a) Two carpels b) One carpel	c) Five carpels	d) Three carpels
	•	u) Tillee carpeis
253. Which one of the following represents the floral characters because at the floral characters beta at the floral characters because at the floral characters beca		
a) Pedicellate, bracteates, bisexual, tetramerous, act	= = =	-
b) Pedicellate, bracteates, bisexual, pentamerous, zy	~	-
c) Sessile, bracteates, bracteolate, incomplete, uni or		d into lodicules, stamens
three, syncarpous, superior ovary and feathery st	_	
d) Bracteate, unisexual, actinomorphic, stamens five		
254. In a cereal grain, the single cotyledon of embryo is re		
a) Coleorhiza b) Scutellum	c) Prophyll	d) Coleoptile
255. 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	
256. Which of the following have double fertilization?		
a) Algae b) Bryophytes	c) Pteridophytes	d) Angiosperms
257. Identify a pair of the following plants, which show m	odification of axillary buds	into tendrils and hooks
respectively.	'ATION	
I. <i>Hugonia</i>	WILLIAM	
II. <i>Duranta</i>		
III. <i>Passiflora</i>		
IV. <i>Dioscorea</i>		
a) I and II b) II and III	c) III and I	d) IV and I
258. Diadelphous stamens are the characteristic features	of	
a) Ranunculaceae b) Fabaceae	c) Poaceae	d) Malvaceae
259. The aerial, short and branched roots of an autotroph	nic plant that provide stabil	•
a) Lateral roots b) Haustoria	c) Velamen roots	d) Clinging roots
260. The flower of Hibiscus is		, 5 5
a) Regular, bisexual, hypogynous and incomplete	b) Regular, unisexual, hyp	oogynous and complete
c) Regular, bisexual, epigynous and complete	d) Regular, bisexual, hypo	
261. Gynoecium is the	ay negarar, sisemaar, ny pe	egymous and compress
a) Female reproductive part of flower made up of or	ne carnel	
b) Female reproductive part of flower made up of m	-	
c) Female reproductive part of flower made up of tw	o carpei	
d) All of the above		
262. Exstipulate leaves are present in		
a) <i>Althea rosea</i>	la) Tui dan	
	b) <i>Tridax procumbens</i>	
c) <i>Hibiscus rosa-sinensis</i> 263. Sunflower belongs to the family	b) <i>Tridax procumbens</i> d) <i>Tephrosia purpurea</i>	

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				Gplus Education
	a) Liliaceae	b) Asteraceae	c) Cruciferae	d) Fabaceae
264	. Ginger multiplies vegetati			
	a) Tuber	b) Corm	c) Sucker	d) Rhizome
265	Non-endospermous seed			
	a) Bean	b) Gram	c) Pea	d) All of these
266		oups of plants are propagat		
	a) <i>Bryophyllum</i> and <i>Kalai</i>		b) Ginger, potato, onion ar	
	c) Pistia, Chrysanthemum	• • •	d) Sweet potato, Asparagi	<i>ıs, Tapioca</i> and <i>Dahlia</i>
267	. Flowers and lateral branc			
	a) Lateral buds	b) Lentices	c) Stomata	d) Cuticle
268	. In cauliflower, the inflores			D. C. J.
0.60	a) Corymbose	b) Cymose	c) Raceme	d) Capitulum
269	The botanical name of soy			D 41
	a) <i>Cajanus cajan</i>	b) <i>Glycine max</i>	c) <i>Glycyrrhiza glabra</i>	d) <i>Abrus precatorious</i>
270	. Empty glumes are	13.5		D 0 1
	a) Petals	b) Bracts	c) Anthers	d) Carpels
271		mens are attached to the pe		
a - a	a) Epiphyllous	b) Epipetalous	c) Adelphous	d) Syngenesious
272	. Root apex covered by thir	nble-like structure called		
	a) Region of elongation			
	b) Region of maturation			
	c) Region of dividing			
0.50	d) Root cap	< 1 3		
273	. Fabaceae		1) 141 1 61 61	
	a) Was earlier called Papi		b) Was a sub family of Leg	uminosae
0.7.4	c) Is distributed all over t	he world	d) All of the above	
274	Stem develops from	Su depute	3.01	ו או מעו
275	a) Epicotyle	b) Hypocotyle	c) Plumule	d) Radicle
2/5		observed in the lemon fruit	=	d) Managara
276	a) Endocarp	b) Exocarp	c) Both (a) and (b)	d) Mesocarp
2/6		presents the male reproduc	· ·	d) Nama af thana
277	a) Androecium	b) Stamen	c) Both (a) and (b)	d) None of these
2//	· ·	of perianth are places unde		aahlamudaaa
	a) Class-Monocot, Sub-class	-	b) Class-Dicot, Series-Mond) Class-Monocot, Subclas	_
270	c) Class- Dicot, Subclass- I Presence of persistent cal		u) Glass-Mollocot, Subclas	s -Gamopetalae
270	•	b) Gramineae	c) Malvaceae	d) Compositos
270	a) Solanaceae	b) Grainineae	cj Marvaceae	d) Compositae
219	In cymose inflorescencea) Main axis do not termin	acto in a flourer	b) Main axis terminate in a	n florron
	c) Main axis do not exist	late III a Howel	d) Main axis modified into	
280	. Liliaceae		uj Main axis illoulileu illu	Howel
200	a) Is commonly called lily	family		
	b) Is a representative of n	_		
	c) Is a representative of d			
	d) Both (a) and (b)	icotyreadiious pialits		
2Ω1	- ' ' ' ' ' '	are fused at base. This con-	dition is called	
201	i ili Gillia i OSE, live cai pels	are ruseu at base, This Coll	artion is cancu	

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b) Partial fertilisation

b) Pentacarpellary, apocarpous and pentalocular

d) Pentacarpellary, syncarpous and multilocular

d) Triple fertilisation

c) Double fertilisation

a) Pentacarpellary, syncarpous and pentalocular

c) Polycarpellary, syncarpous and pentalocular

282. Endosperm is the result of a) Single fertilisation

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283	. Ginger is an underground	stem. It is distinguished from	om root because it	
	a) Lacks chlorophyll		b) Stores food	
	c) Has nodes and interno	des	d) Has xylem and vessels	
284	. In which plant undergrou	nd stems spread to new nic	ches and when older parts	die new plants are formed?
	a) <i>Grasses</i>	b) Strawberry	c) <i>Pistia</i>	d) Both (a) and (b)
285	. Which of the following pla	ants have long slender and	coiled stem tendrils develo	ped from axillary buds?
	a) Grapevine and pumpki	ns	b) Australian Acacia and v	watermelon
	c) Bougainvillea and cucu	mber	d) Strawberry and grapev	rine
286	. A raceme inflorescence of	<i>Tamarindus</i> bears 15 flow	ers. Each fertile anther lob	e of its flower contains 215
	pollen grains. What would	d be the total number of pol	llen grains produced by the	e inflorescence?
	a) 64500	b) 32250	c) 19350	d) 16125
287	. Triticale is a hybrid forme	ed from the members belon	ging to the following famili	ies
	a) Brassicaceae and Poace	eae	b) Poaceae and Poaceae	
	c) Poaceae and Fabaceae		d) Alismaceae and Poacea	ie
288	. The fleshy receptacle of s	yconous of fig encloses a nu	ımber of	
	a) Achenes	b) Samaras	c) Berries	d) Mericarps
289	. A student collected a hydi	cophyte with swollen petiol	le and with a single vascula	r bundle in the root. The
	plant which he collected.,	was		
	a) <i>Jussiaea</i>	b) <i>Trapa</i>	c) <i>Ceratophyllum</i>	d) <i>Potamogeton</i>
290	. Scar on the seed coat thro	ugh which seeds are attach	ed to the fruit is called	
	a) Testa	b) Tegmen	c) Micropyle	d) Hilum
291	. The condition where filan	nents and anthers are fused	l throughout entire length i	is
	a) Synandrous	b) Gynandrous	c) Protandrous	d) Syngenesious
292	. Which of these is an examp	ole for zygomorphic flower w	vith imbricate aestivation?	
	a) <i>Calotropis</i>	b) Mustard	c) <i>Canna</i>	d) <i>Cassia</i>
293	. Select the correctly match	_		
	a) Colchicum autumnale-	Solanaceae	b) <i>Petunia</i> – Solanaceae	
	c) <i>Gloriosa</i> – Fabaceae	WOLLIS FINE	d) <i>Trifolium</i> –Liliaceae	
294	. Leaves aries from which ր	part of plant?	15.117.01.1	
	a) Rhizome	b) Stem	c) Internode	d) Node
295	= =	nat developed from the ova	ry of a monocarpellate gyn	oecium and breaks into
	several one seeded parts	at maturity?		
	a) Cremocarp	b) Carcerulus	c) Regma	d) Lomentum
296		ictures present around sun		
	a) Involucre	b) Calyx	c) Epicalyx	d) Leaves
297	Identify A , B and C in the	given diagram		
	B A			
	a) A-Leaf base, B-Petiole,	C-Lamina		
	b) A-Leaf base, B-Lamina,			
	c) A-Lamina, B-Petiole, C-			
	d) A-Lamina, B-Leaf base,			
298	. In which plant, the pneum			
	a) <i>Tinospora</i>	b) <i>Pinus</i>	c) <i>Rhizophora</i>	d) None of these
299		n in Cruciferae are found in		-
	a) <i>Nastrusium</i>	b) <i>Senebirea</i>	c) <i>Raphanus</i>	d) <i>Brassica</i>
300	. Vivipary is seen in	-	- •	-
	a) Mangroves	b) Xerophytes	c) Hydrophytes	d) Mesophytes

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301.	Number of carpels is Sida	<i>cordifolia</i> is always		
	a) Equal to the number of	styles	b) Equal to the number of locules	
	c) Double the number of s	styles	d) Half the number of locu	ıles
302.	Inflorescence of <i>Ficus</i> is			
	a) Raceme	b) Spike	c) Hypanthodium	d) Verticillaster
303.	Pineapple fruit develops f	rom		
	a) Unilocular polycarpella		b) Multipistillate syncarpo	ous flower
	c) Multilocular monocarp	ellary flower	d) A cluster of compactly	born flowers on an axis
304	· ·	· · · · · ·	round nut) and sperm is co	
	embryo. Such seeds are ca	, , ,	•	
	a) Single	b) Albuminous	c) Endospermic	d) Non-endospermic
305.	Which of the following is a	•	,	,
	a) Orchid has palmate fles		b) <i>Pandanus</i> has stilt root	S
	c) Sweet potato has root t	=	d) All of the above	
306.	Bract is a modified			
	a) Petal	b) Sepal	c) Leaf	d) Involucre
307.	Leaf	, ,	,	,
		ittened structure born on t	he stem	
	b) Is a vegetative organ fo			
	c) Originates from shoot a	= =		
	d) All of the above	1		
308.	Tobacco and Petunia belo	ng to the family		
	a) Poaceae	b) Fabaceae	c) Solanaceae	d) Brassicaceae
309.	•	g families has unicolour su		,
	a) Asteraceae	b) Solanaceae	c) Papaveraceae	d) Cucurbitaceae
310.	•	g floral formula represents	· •	,
	a) \oplus O' K_{2+2} C_4 A_{2+4} \overline{G}	(2)	h) \oplus O' P ₂₊₂ C ₄ A ₂₊₂ G ₉	(3)
) - 1 -2+2 -4 - 2+4 =	ENLIZ	b) \bigoplus Q' P_{3+3} C_4 A_{3+3} \subseteq d) \bigoplus Q' K_{2+2} C_4 A_{2+4} \subseteq	(2)
	c) $\oplus Q K_{(5)} C_{(5)} A_{(5)} \underline{G}(2)$	J PLUS EDUL	d) $\oplus $ $\downarrow $ $K_{2+2} C_4 A_{2+4} \subseteq$	(2)
311.	Inflorescence of family-Co	ompositae is		
	a) Perianth	b) Lodicules	c) Capitulum	d) Hypanthodium
		ated the land flora primari		
	a) Power of adaptability i	n diverse habitat	b) Property of producing	large number of seeds
	c) Nature of some pollina	tion	d) Domestication by man	
313.	Which one of the flowing	is a monocarpic plant?		
	a) Pear	b) <i>Citrus</i>	c) Mango	d) <i>Bambusa</i>
314.	Stem tendrils are develop	ed from the which are sl	lender and spirally coiled	
	a) Terminal buds	b) Auxillary buds	c) Both (a) and (b)	d) Shoot tip
315.	The anthers in Solanaceae	e are		
	a) Monothecous, introrse		b) Dithecous, extrorse	
	c) Dithecous, introrse		d) Monothecous, extrorse	
316.	In Selaginella, the adaxial	outgrowth, from the base o	of leaf, is called	
	a) Ligule	b) Velum	c) Rhizophore	d) Glossopodium
317.	The cloves, which are use	d in food preparation are		
	a) Seeds	b) Leaves	c) Flower buds	d) Stem tips
318	Tetradynamous stamens a	are found in		
	a) <i>Chrysanthemum</i>	b) <i>Zinnia</i>	c) Poppy	d) <i>Brassica</i>
319.	The leaves are modified in	nto spines in		
	a) <i>Nepenthes</i>	b) <i>Opuntia</i>	c) Australian <i>Acacia</i>	d) <i>Utricularia</i>
320	Placenta is the cushion lik	e structure on which the		

a) Ovule attached 321. Arrange the followin I. <i>Hardwickia</i> II. <i>Gynandropsis</i> III. <i>Marselia</i> III. <i>Citrus</i>	b) Ovary attached ng plants in the ascending on	c) Seed attached rder based on the number	d) Stamen attached of leaflets in a leaf.
a) I, III, II, IV	b) IV, I, III, II	c) IV, I, II, III	d) II, IV, III, I
=	pous ovary with axile place	<u>=</u>	w,,,, .
a) Solanaceae	b) Caesalpinaceae	c) Asteraceae	d) Malvaceae
323. The given formula by Br \oplus Q Epi ₃ K ₍₅₎ C ₅ A	elongs to	ŕ	•
a) Solanaceae	b) Malvaceae	c) Gramineae	d) Compositae
324. Which type of place:	ntation is found in family-Fa	baceae?	
a) Axile	b) Marginal	c) Parietal	d) Basal
325. Study the given diag	ram		
Carpel	7		
a) <i>Colchicum</i>	b) Onion	c) <i>Solanum</i>	d) Coffee
	it, splits in middle into two		
a) Porocidal	b) Septicidal	c) Loculicidal	d) Septifragal
327. Fibrous root system			
a) Monocot plants	b) Dicot plants	c) Pteridophytes	d) Bryophytes
328. Tetradynamous and) m	
a) Mustard	b) Onion	c) Tomato	d) Sunflower
			ces in Poinsettia. Find out the
	n Bougainvillea and the num		
a) 34 and 126	b) 68 and ∞	c) 204 and 164	d) 102 and 42
330. Select the wrong sta	s seen in Solanaceae		
,	gynous in Asteraceae		
, , , , , , , , , , , , , , , , , , , ,	ned from <i>Artemelsia</i>		
	nth is represented by memb	ranous scales called Iodici	ules
331. Nodes are the region			
a) Roots are born	b) Leaves are born	c) Stilt root are born	d) Prop root are born
332. Structure of leaf wh	ich provide channels of tran	-	
a) Midrib	b) Margin	c) Lamina	d) Veins
333. Identify the flower p	parts A to E in the given diag	gram	
	— A — B C D — E		
a) A-Androecium, B	-Gynoecium, C-Corolla, D-Ca	llyx, E-Pedicel	
	-Gynoecium, C-Corolla, D- P		
	-Gynoecium, C-Pedicel, D-Co		
d) A-Androecium, B	-Gynoecium, C-Calyx, D-Cor	olla, E-Pedicel	
334. Whorled type of phy	rllotaxy is found in		
a) Mustard	b) China rose	c) Guava	d) <i>Alstonia</i>
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335. Plants mentioned in previous question belongs to a) Cruciferae b) Liliaceae d) Asteraceae c) Fabaceae 336. Which of the following correctly represents the types of fruits given? a) A-Berry **B-Caryopsis** C-Drupe **D-Sorosis** E-Aggregate b) B-Berry C-Caryopsis **D-Drupe** A-Sorosis E-Aggregate c) B-Berry C-Caryopsis D-Drupe E-Legume A-Aggregate d) B-Berry C-Caryopsis D-Drupe A-Sorosis E-Legume 337. Bicarpellary, syncarpous and with pseudoseptum fruit is a) Siliqua b) Achene d) All of these 338. Root hairs are present on the a) Root cap b) Region of elongation d) Region of dividing cell c) Region of maturation 339. I. When carpels are free, they are called ... A... . II. When the carpels fused, they are called ...B.... Here, A and B refers to a) A-syncarpous; B-apocarpous b) A-apocarpous; B-syncarpous c) A-monocarpous; B-multicarpous d) A-multicarpous; B-monocarpous 340. Parthenocarpic tomato fruits can be produced by a) Removing androecium of flowers before pollen grains are released b) Treating the plants with low concentrations of gibberellic acid and auxins c) Raising the plants from vernalised seeds d) Treating the plants with phenylmercuric acetate 341. Petiole a) Helps to hold the leaf blade b) Allows leaf blades to flutter wind d) All of the above c) Helps in cooling the leaf 342. Maize grain is a) Seed b) Embryo c) Ovule d) Fruit 343. Free central placentation is found in b) Caryophyllaceae a) Brassicaceae c) Asteraceae d) Malvaceae

344. In a tetradynamous androecium, one of the following is seen.

a) Outer whorl of four smaller stamens and inner wh	norl of two larger stamens				
b) Outer whorl of two larger stamens and inner who	b) Outer whorl of two larger stamens and inner whorl of four smaller stamens				
c) Outer whorl of four larger stamens and inner who	orl of two smaller stamens				
d) Outer whorl of two smaller stamens and inner wh	orl of four larger stamens				
345. Multicarpellary, apocarpous, gynoecium with superi	or ovary is characteristic fe	eature of the family			
a) Papaveraceae b) Mystaceae	c) Ranunculaceae	d) Rutaceae			
346. The stem is theA part of the axis bears branches,	leaves, flowers and fruits.	It develops from theB			
part of embryo of germinating seeds. Complete the g	iven statement by choosing	g appropriate options for A			
and B	•				
a) A-descending; B-radicle	b) A-radicle; B-descendin	g			
c) A-ascending; B-plumule	d) A-plumule; B-ascendin	•			
347. Long filaments threads protruding at the end of a yo	· -				
a) Anthers b) Styles	c) Ovaries	d) Hairs			
348. Angiosperms differ from gymnosperms in	-,	,			
a) Seeds	b) Fruits				
c) Male gametophyte	d) Female gametophyte				
349. Sub-aerial stem modification with long internode is	any a control Bonne on busy on				
a) Tuber b) Phyllode	c) Phylloclade	d) Runner			
350. Flowers with bracts, (reduced leaf found at the base		•			
are calledB	or peareer) are carred mixim	and those without bracts,			
Complete the given statement by choosing appropria	ate ontions for A and B				
a) A-bracteate; B-ebracteate	b) A-ebracteate; B-bracte	ate			
c) A-pinnate; B-palmitate	d) A-palmitate; B-pinnate				
351. A drupe develop in	d) A painitate, B pinnate				
a) Wheat b) Pea	c) Tomato	d) Mango			
352. Which of the following represents the condition seen	*	, ,			
a) Superior ovary, Syngenesious and single basal ov		•			
b) Inferior ovary, monoadelphous and basal placenta					
c) Inferior ovary, Syngenesious and axile placentation	. 200 1 1 2 2 1 1 10				
d) Syngenesious, basal placentation and epigynous	011				
353. A flower which can be divided into equal vertical hal	was by more than one plan	a of division is			
•	•				
a) Actinomorphic b) Zygomorphic	c) Heteromorphic	d) Cyclic			
354. An example of a seed with endosperm, perisperm an		1) C +			
a) Cotton b) Coffee	c) Lily	d) Castor			
355. The diagram of the section of a maize gain is given b	low, identify the parts labe	led A, B, C, and D.			
A A					
D B					
A B C D					
a) Endosperm Coleoptile Scutellum Aleurone layer	b) Cotyledon Coleoptile Scu	tellum Epithelium			
c) Endosperm Coleoptile Scutellum Epithelium	d) Endosperm Coleoptile Scut				
356. Lomentum is a kind of	uj				
a) Inflorescence b) Plant	c) Fruit	d) Insect			
357. I. Standard petals	c _j rruit	aj mocci			
II. Wing petal					
III. Keel petals					
Above petals are found in					
ADDIE DEMIS METOMINA III					

a) Valvate aestivation b) Twisted aestivation c) Imbricate aestivation d) Vexillary aestivation 358. In the members of family-Malvaceae, anthers are described as a) Diadelphous and dithecous b) Diadelphous and monothecous c) Monodelphous and monothecous d) Monadelphous and dithecous 359. *Cinchona officinalis* belongs to family a) Cruciferae b) Malvaceae c) Rubiaceae d) Leguminosae 360. Colchicine I. is obtained from *Colchium autumnale* II. is a cytokinesis inhibitor III. induce polyploidy IV. is obtained from Fabaceae family V. Floral formula = $\bigoplus^{4} P_{3+3} A_{3+3} G_3$ Which are correct statement? a) I, II and III b) III, V and IV c) II, III and IV d) V, II and I 361. A phyllode is a modified a) Leaf b) Stem c) Branch d) Root 362. Modification of petiole into leaf-like structure is called a) Cladode b) Phylloclade c) Phyllode d) Pistillode 363. Some feature of plant leaves are a) Hair on the lower surface and waxy cuticle b) Hair on the upper surface and no cuticle d) Presence of endodermis and casparian strips c) Epidermis without stomata 364. Which of the following is a fatty oil yielding plant? a) Sunflower b) Acacia c) Butea d) Casuarina 365. The order of opening of flower parts from the periphery towards the centre, is called b) Centripetal c) Centrifugal a) Acropetal d) Basipetal 366. In which of the following fruits, the edible part is the aril? b) Pomegranate c) Orange d) Litchi a) Apple 367. China rose have five fused carpals at the base. This condition is called a) Pentacarpellary, syncarpous, monoadel pherus b) Pentacarpellary, apocarpous, monoadel pherus c) Polycarpellary, syncarpous, monoadel pherus d) Pentacarpellary, syncarpous, monoadel pherus 368. Given floral diagram represents a) Solanaceae b) Fabaceae c) Liliaceae d) Musaceae 369. Swollen leaf base is called b) Petiole a) Lamina c) Pulvinus d) Leaf blade 370. The botanical name of cabbage is a) Brassica oleracea var. botrytis b) Brassica oleracea var. capitata c) Brassica oleracea var. gongylodes d) Brassica compestris 371. Jowar belongs to family a) Glumaceae b) Gramineae/Poaceae

d) Malvaceae

c) Asteraceae/Compositae

372.	= -	mine, a selender lateral bra times, arch downwards to t		
	a) Sucker	b) Stolon	c) Offset	d) Scramblers
373.	Expanded green stem of a	<i>Opuntia</i> is called		
	a) Phylloclade	b) Tendril	c) Bulbs	d) Cladode
374.		number they are calledA		
		number called they areB		
	Here A and B refers to:	,		
		nd): B-Imparipinnate (rose)) b) A-Paripinnate (rose): B	B-Imparipinnate (tamarind)
); A-Paripinnate (tamarind)
375.		of gymnosperms and angio		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0,0	a) Parenchyma	b) Sieve cell	c) Companion cell	d) Fibres
376	China rose is called shoefl	*	c) dompamon con	a) History
570.	a) The flowers are showy		b) The flowers produce bl	ack dve
	c) The flowers are shoe sh		d) Petals are used for blac	
377	Tetradynamous condition		a) I ctais are used for blac	Renning the shoes
377.	a) Asteraceae	b) Malvaceae	c) Papilionatae	d) Brassicaceae
378	Sunflower belongs to	b) Marvaccac	c) i apinonatae	d) Di assicaccae
370.	a) Asteraceae	b) Fabaceae	c) Musaceae	d) Euphorbiaceae
270	•	d and stony endocarp are ca	- -	u) Euphoi biaceae
3/7.	a) Drupe	b) Berry	c) Pepo	d) Pome
200	Ruminate endosperm is for	, ,	c) repo	d) I ome
300.	a) Cruciferae		a) Euphorbiogogo	d) Annonggoog
201	•	b) Asteraceae	c) Euphorbiaceae	d) Annonaceae
301.		isions to produce 100 cells, b) 50	c) 99	d) 100
202	a) 25 Fruit formed without fert		CJ 99	d) 100
302.		iisatioii oi ovary is called	h) Dauthanagannia fuuit	
	a) Cypsela fruit	C FRUG	b) Parthenocarpic fruit	
202	c) Drupe fruit	ZPLUS EUUS	d) Pome fruit	
383.	=	eath covering the stem par	tially or wholly.	
	This is the characteristic of		a) Dtawidanhystaa	d) Cryss n a an arms
204	a) Dicot	b) Monocot	c) Pteridophytes	d) Gymnosperm
304.	The most advanced family		a) Camura aita a	d) Frank aultin and
205	a) Cruciferae	b) Cucurbitaceae	c) Compositae	d) Euphorbiaceae
303.	identify the types of place	ntation in the given diagran	ms (A to E)	
	29299 (S) (S) (S)			
	She She			
	a) A-Marginal, B-Axile, C-l	Parietal, D-Free central, E-E	Basal	
	-	-Parietal, D-Free central, E-		
	-	Marginal, D-Free central, E-A		
		Iarginal, D-Free central, E-E		
386	=	or the androecium in a flow		rosa sinensis) is
500.	a) Monodelphous	b) Diadelphous	c) Polyandrous	d) Polyadelphous
387		number of achlamydeous r	•	
507.	female flower is	namber of acmanyucous i	mare nower surrounding a	omere acmany acous
	a) Verticillaster	b) Cyathium	c) Spadix	d) Hypanthodium
	.,	~, ~, ~, ~, ~, ~, ~, ~, ~, ~, ~, ~, ~, ~	-, opaam	a, mp pandiodidiii

388. G and \overline{G} , respectively stands for a) Superior ovary, inferior ovary b) Inferior ovary, superior ovary c) Superior ovary, intermediate ovary d) Intermediate ovary, inferior ovary 389. Root hairs are found a) In the zone of elongation b) Adventitious roots c) On the root cap d) In the zone of maturation 390. Pericarp and placenta are edible part of simple fleshy berry fruit a) Jack fruit b) Banana c) Tomato d) Date palm 391. The given diagram belongs to The diagram shown is the a) Onion plant b) Garlic plant c) Potato plant d) Lily plant 392. Offset is a type of stem present in a) Pistia b) Colocasia c) Oxalis d) Potato 393. Ginger is an example of underground modified stem called a) Rhizome b) Corm c) Tuber d) Bulb 394. The *Orobanche* plant is a) Partial stem parasite b) Total root parasite c) Symbiont d) Total stem parasite 395. Which one of the following is an example for sub-aerial modification of stem? a) Agave b) Oxalis c) Asparagus d) Tridax

396. In which plant, the fruit is a drupe, seed coat is thin, embryo is inconspicuous and endosperm is edible?

a) Groundnut

b) Wheat

c) Apple

d) Coconut

397. Corolla aestivation showing two external, two internal and one partially external and internal sepals. The condition is

a) Valvate

b) Twisted

c) Quincuncial

d) Vexillary

398. Staminode is

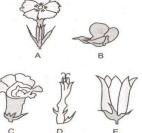
a) Sterile stamen

b) Fertile stamen

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c) Redumentary stamen d) Developed stamen

399. The correct sequence of types of corolla in the figure given is



a) A-Caryophyllaceous

B-Papilionaceous

C-Personate

D-Tubular

E-Bell-shaped

b) A-Papilionaceous

B-Personate

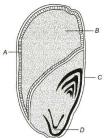
C-Tubular

- D-Bell-shaped
- E-Caryophyllaceous
- c) A-Personate
 - **B-Papilionaceous**
 - C-Caryophyllaceous
 - D-Bell-shaped
 - E-Tubular
- d) A-Caryophyllaceous
 - **B-Personate**
 - C-Papilionaceous
 - **D-Tubular**
 - E-Bell-shaped
- 400. Epigynous flowers with numerous stamens are found in
 - a) Ranunculus muricatus

b) Fragaria indica

c) Croton roxburghii

- d) *Syzygium cuminis*
- 401. Identify A, B, C and D in the given diagram



- Coleorhiza
- a) A-Aleurone layer, B-Endosperm, C-Coleoptile, D- b) A- Aleurone layer, C-Coleoptile, C-Endosperm, D-Coleorhiza
- c) A-Coleoptile, B-Aleurone layer, C-Endosperm, D- d) A-Coleoptile, B-Aleurone layer, C-Coleorhiza, D-
 - Endosperm
- 402. Which of the following is incorrect about the diagram *A* and *B*?







- a) Tap roots of carrot, turnip and adventitious root of sweet potato get swollen and store food
- b) Pneumatophores help to get oxygen for respiration
- c) Pneumatophores are found in the plants that grows in sandy soil
- d) A is underground roots, but B grows vertically upwards
- 403. What is the botanical name of mulberry?
 - a) Morus
- b) *Antherea*
- c) Attacus
- d) Solanum

- 404. Which one of the following is a pseudocarp?
 - a) Apple
- b) Guava
- c) Tomato
- d) Banana

- 405. In unilocular ovary with a single ovule, the placentation is
 - a) Marginal
- b) Basal
- c) Free central
- d) Axile
- 406. A hyaline bisexual and self-fertilized flower that does not open at all, is
 - a) Chasmogamous
- b) Apogamous
- c) Cleistogamous
- d) Polygamous
- 407. A plant with actinomorphic and hypogynous flowers, heterochlamydeous perianth, dorsifixed and extrorse anthers dehiscing transversely belongs to
 - a) Coronariae
- b) Bicarpellatae
- c) Thalamiflorae
- d) Calyciflorae

408. Opium (poppy) is a plant belonging to the family

_			•		
Gpl	115	FA	uco	ITIN	n
Up:	uJ	_ ~	ucu		••

				Opius Luucutioi
	a) Apocynaceae	b) Papaveraceae	c) Solanaceae	d) Liliaceae
409	. Ladies finger (bhind	di) belongs to		
	a) Malvaceae	b) Cruciferae	c) Solanaceae	d) Liliaceaea
410	. Name the condition	given in statement I and II		
	I. When stamens att	ached to the petals		
	II. When stamens at	tached to perianth		
	I II			
	a) Epiphyllous Epi	petalous	b) Epipetalous Epip	hyllous
	c) Staminode Epi		d) Epipetalous Hypo	petalous
411	. Tracheophyta consi	sts of		
	a) Bryophytes only		b) Pteridophytes only	y
	c) Gymnosperms ar	nd angiosperms	d) Both (b) and (c)	
412	. Two plants 'A' and '	B' belonging to Solanaceae ar	e observed. In plant 'A', th	e number of locules in the ovary
	of a flower is half of	that of its carpel number. In	plant B, the number of loc	ules in the ovary of a flower is
	double the number	of carpels. Identify the plants	'A' and 'B' respectively	
	a) <i>Capsicum, Datur</i>	a	b) <i>Cestrum, Petunia</i>	
	c) Withania, Solanu	ım	d) <i>Lycopersicon, Nico</i>	otiana
413	. Double fertilization	occurs among		
	a) Algae	b) Bryophytes	c) Angiosperms	d) Gymnosperms
414	. A flower which can	be divided into two equal hal	ves by only one plane is	
	a) Zygomorphic	b) Actinomorphic	c) Regular	d) Perfect
415	. Cyathium infloresce	ence shows		
	a) Scorpioid cyme s	howing central female, many	peripheral male flowers	
	b) Scorpioid cyme s	howing central male, many p	eripheral female flowers	
	c) Dichasial cyme sl	howing two whorls of 3 to 9 f	lower	
		howing two whorls, one of ma		flowers
416	. o ,	$_{1}\underline{G}_{1}$ is the floral diagram of th	o family	
	$+ K_{(5)}C_{1+2+(2)}A_{(9)+}$	$\frac{1}{100}$ is the noral diagram of the	ie family	D. D.
	a) Fabaceae	b) Solanaceae	c) Liliaceae	d) Papaveraceae
41/	-		ue to the suppression of oi	ne or two leaflets is found in one
	of the following plan			D . GU
	a) <i>Hardwickia</i>	b) <i>Parkinsonia</i>	c) <i>Coriandrum</i>	d) <i>Citrus</i>
418	. Aggregate fruit is fo			
	a) <i>Ananas sativus</i>	b) <i>Annona squamosa</i>	c) Artocarpus integri	<i>itolia</i> d) <i>Pyrus malus</i>
419	. Identify the type of	venation in the given diagran	A (A and B)	





- a) A-Reticulate (dicotyledons); B-Parallel (monocots)
- b) A-Reticulate (monocots); B-Parallel (dicots)
- c) A-Parallel (dicots); B-Reticulate (monocots)
- d) A-Parallel (monocots); B-Reticulate (dicots)
- 420. In an inflorescence, two types of small, sessile flowers were observed. They are arranged in centripetal manner and have reduced hair-like sepals. Which pair of the following characters are not associated with such flowers?

I.Nectar glands at the base of the corolla

			Opius Luucutioi
II.Axile placentation			
III.Superior ovary			
IV.Scaly bracts	12.77) v 1 v 1	15.7
a) II and III	b) III and IV	c) I and II	d) I and IV
421. It is an example of an) II II' '	1) #
a) Lotus	b) <i>Typha</i>	c) <i>Vallisneria</i>	d) <i>Trapa</i>
422. Keel is characteristic		a) Calatuania	d) Door
a) Gulmohur	b) <i>Cassia</i>	c) <i>Calotropis</i>	d) Bean modification for the storage of
a) Water	urmp and adventitious roc	ots of sweet potato are the f	nounication for the storage of
b) Food			
c) Secondary compo	uind		
d) Primary compour			
424. Replum is found in fa			
a) Labiatae	b) Malvaceae	c) Compositae	d) Brassicaceae
•	•	· -	lder flowers lie towards the base
	-	=	s and more flowers are added.
The inflorescence is		F	
a) Raceme	b) Corymb	c) Umbel	d) Head
•	lowing statements are true		,
	-	ow internodes, it is called c	audex.
II.In <i>Tridax</i> , the stem			
III.Corm is a condens	sed from of rhizome growi	ng more or less in vertical c	lirection.
IV.Sucker is an unde	rground modification of st	em.	
V.Biparous type of cy	ymose branching is seen in	Saraca.	
a) I, IV and V	b) II and III	c) II, III and V	d) III and IV
427. The arrangement of		e developed from the centra	
a) Parietal placentat		n c) Basal placentation	n d) Marginal palcention
428. A simple one seeded	fruit in which pericarp is f	fused with seed coat is	
a) Achene	b) Caryopsis	c) Cypsela	d) Nut
	sed by cotyledon, the cotyle		
_	b) Albuminous		d) Non-endospermic
	nodified into spines in orde		
a) Reduce transpirat		b) Reduce surface ar	ea
•	from grazing animals	d) All of the above	6 11 0
	=	168 belongs to which plant	
a) Solanaceae	b) Fabaceae	c) Liliaceae	d) Papaveraceae
ŭ	,	nce from the leaves of a plan	it. From which type of
••	fruit of that plant develop?		
	carpous gynoecium with in carpous gynoecium with su		
, , , ,	carpous gynoecium with s	•	
	ynoecium with half inferio		
433. A horizontal undergr		or ovary	
a) Corm	b) Phylloclade	c) Rhizome	d) Rhizoid
		noist conditions to break its	•
a) Scarification	b) Vernalisation	c) Chelation	d) Stratification
435. The lateral roots orig	•	- ,	
a) Endodermal cells	-	b) Pericycle cells	
c) Epiblema		d) Cortical cells belo	w root hairs

- 436. Potato and sweet potato
 - a) Have edible parts, which are homologous organs
 - b) Have edible parts, which are analogous organs
 - c) Have been introduced in India from the same place
 - d) Are two species of the same genus
- 437. When flower has both and androecium and gynoecium, it is called ...A...
 - II. When flower has either stamens or only carpel, it is called ...B...

Complete the given statement by choosing appropriate options for A and B

a) A-unisexual; B-bisexual

b) A-bisexual; B-unisexual

c) A-bisexual; B-hermaphrodite

- d) A-hermaphrodite; B-bisexual
- 438. One of the following is a dry indehiscent fruit
 - a) Caryopsis
- b) Pod

- c) Follicle
- d) Lomentum
- 439. The characteristic type of placentation found in the members of Caryophyllaceae is
 - a) Parietal
- b) Marginal
- c) Basal

d) Free central

- 440. Edible part of cauliflower is
 - a) Bud

- b) Inflorescence
- c) Flower
- d) Fruit
- 441. The circinate vernation is the characteristic feature of ferns. It refers to
 - a) Coiling of young leaves

b) Arrangement of leaves on stem

c) Attachment of sori on leaves

- d) Heterophily
- 442. The fruit is chambered, developed from inferior ovary and has seeds with succulent testa in
 - a) Pomegranate
- b) Orange
- c) Guava
- d) Cucumber
- 443. Observe the given floral diagram and choose the suitable floral formula from the followings



a) $\% \vec{Q} K_5 C_5 A_{10} \underline{G}_1$

b) % \vec{Q} $K_{(5)}$ C_5 A_{10} \underline{G}_1

c) % \vec{Q} $K_{(5)}C_{1+2+(2)}A_{(9)+1}\underline{G}_{10}$

- d) % \vec{Q} $K_5 C_{1+2+(2)} A_{(9)+1} \underline{G}_1$
- 444. Starch is insoluble in water, yet it is accumulated in large quantities in potato tuber because
 - a) It is useful for storage

b) Tubers respire slowly

c) Starch is synthesized in tubers

- d) Translocated sucrose is polymerized here
- 445. Small branches produced from lower 2 to 3 nodes in jowar are called
 - a) Culm

- b) Prop roots
- c) Ligule
- d) Tillers
- 446. What is the fruit that develops from a tricarpellary, syncarpous, inferior ovary with parietal placentation?
 - a) Pepo

- b) Pome
- c) Cypsela
- d) Capsule
- 447. Three floral diagrams are given here. Their respective families are assigned in the answer key. Find out the families to which these diagrams belong to



$$B - OK_{(5)}C_{(5)}A_{(5)}G_{\underline{(2)}}$$

$$C - \oplus Q^{\uparrow}K_{2+2}C_4 A_{2+4} G_{(2)}$$

- a) A-Liliaceae B-Asteraceae C-Solanaceae
- b) A-Asteraceae B-Solanaceae C-Brassicaceae
- c) A-Asteraceae B-Solanaceae C-Poaceae
- d) A-Poaceae B-Solanaceae C- Asteraceae
- 448. The edible part in hesperidium fruit is
 - a) Pericarp
- b) Mesocarp
- c) Juicy hair
- d) Endocarp

- 449. Water stomata are found in
 - a) Plants lacking normal stomata

b) Plants inhibiting idry regions

c) Plants inhibiting humid region

- d) All plants
- 450. Which one of the following is wrongly matched?

Colu	mn I	Column II

- a) Caesalpiniaceae Catechu
- b) Palmae d) Musaceae
- Date palm Banana

- c) Euphorbiaceae Coccinia
- 451. Fruit of custard apple is etaerio of
 - a) Berries b) Follicles
- c) Achenes
- d) Drupes

- 452. Which is correct to saprophytic angiosperm?
 - a) They secrets enzyme outside the body and absorb nutrients
 - b) They have mycorrhiza with fungi
 - c) They takes food and then digested it
 - d) They are photosynthetic
- 453. In cryopsis type of fruit
 - a) Seed is absent

- b) Three layers of pericarp are distinct
- c) Seed coat and pericarp are fused
- d) Autochory occurs
- 454. Arrange the following plants in the ascending order based on the number of carpels they possess
 - I Oenothera

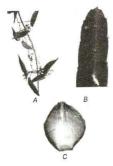
II. Acacia melanoxylon

III.Squill

IV Lettuce

- a) IV, III, I, II
- b) II, IV, III, I
- c) II, III, IV, I
- d) I, IV, III, II
- 455. Rarely among angiosperms, the pollen grains influenced the endosperm. This is called as
 - a) Metaxenia
- b) Nemec phenomenon
- c) Xenia
- d) Mesogamy

- 456. Colchicines producing plant belongs to family
 - a) Liliaceae
- b) Rubiaceae
- c) Malvaceae
- d) Solanaceae
- 457. Identify the type of leaf modification in the given diagram (A to C)



- a) A-Support (spines), B-Protection (tendril), C-Storage (freshy leaves)
- c) A-Protection (dendril), B-Support (spine), C-Storage (freshy leaves)
- b) A-Support (dendril), B-Protection (spine), C-Storage (freshy leaves)
- d) A-Protection (spine), B-Support (dendril), C-Storage (freshy leaves)
- 458. Study the following and choose the correct statements.

I.Bulb of Allium cepa is a modified stem.

II.Cloves of *Allium sativum* are fleshy scale leaves.

III.Corm of Colocasia is a modified root.

IV.Tendril in *Vitis vinifera* is a modified axillary bud.

- a) I and II
- b) II and IV
- c) II and III
- d) I and IV

459. Stems are

- a) Positively phototropic
- c) Negatively hydrotropic

- b) Negatively geotropic
- d) All of the above
- 460. Identify the types of leaves given in the diagram A and B



- a) A-Pinnately compound leaf (neem); B-Palmately b) A-Pinnately compound leaf (silk cotton); Bcompound leaf (silk cotton)
- c) A-Palmately compound leaf (silk cotton); B-Pinnately compound leaf (neem)
- Palmately compound leaf (neem)
- d) A-Palmately compound leaf (neem); B-Pinnately compound leaf (silk cotton)

- 461. The anthers in Solanaceae are
 - a) Monothecous, introrse
 - c) Dithecous, introrse

- b) Dithecous, extrorse
 - d) Monothecovs, extrorse
- 462. Male reproductive organ (flower) consists of
 - a) Stalk

- b) Thalamus
- c) Anther
- d) Both (a) and (c)

- 463. A fruit developed from Hypanthodium inflorescence is called
- a) Hesperidium
- b) Sorosis
- c) Syconous
- d) Caryopsis

- 464. I. Usually bilobed
 - II. Each lobe has two chambers (pollen sacs)
 - III. The chamber (pollen sacs) contains pollen grain

Above are the features of

a) Pistil

- b) Anther
- c) Stamen
- d) Petals

- 465. Which one of the following is an endospermic seeds?

- b) Bean
- c) Gram
- d) Castor

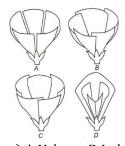
- 466. Identify the monocarpic palm.
 - a) Areca
- b) *Borassus*

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- c) Calamus
- d) Corypha

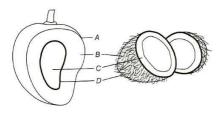
- 467. Seed coat has ...A... layers
- I. Outer covering is called ...B.....

II. Inner covering is c	alledC		
Complete the given s	et of statements (I to III) by ch	oosing appropriate option	ns for A to C
a) A-3, B-testa, C-tegmen		b) A-2, B-testa, C-tegme	en
c) A-2, B-tegmen, C-testa		d) A-3, B-tegmen, C-tes	ta
468. Number of female flo	wers in a Cyathium infloresce	nce is	
a) One	b) Two	c) Three	d) Several
469. Identify the characte	rs of gynoecium found in mem	bers of Asteraceae, Fabac	eae, Liliaceae and Solanaceae,
respectively			
I.Tricarpelly syncarp	ous, ovary superior and trilocu	ılar.	
II.Bicarpellary synca	rpous, ovary superior and usua	ally bilocular	
III.Bicarpellary synca	arpous, ovary inferior and unil	ocular.	
IV.Monocarpellary, o	vary half-inferior and unilocul	ar.	
a) II, I, III, IV	b) III, IV, I, II	c) IV, III, II, I	d) I, II, IV, III
470. Which one among the	e following is the true nut?		
a) Walnut	b) Ground nut	c) Cashew nut	d) Areca nut
471. Thalamus of hypogyr	nous ovary is		
a) Concave	b) Convex	c) Biconcave	d) Biconvex
	ng plant parts can respire even	in the absence of oxygen	?
a) Seeds	b) Roots	c) Stems	d) Leaves
473. A_{∞} represents			
a) Indefinite stamens	-	c) Either (a) or (b)	d) Both (a) and (b)
474. Aggregate fruit form			
a) Multicarpellary ap	The state of the s	b) Multicarpellarey syn	
c) Monocarpellary ap		d) Monocarpellary syn	
	l parts are arranged at the bas		
a) Hypogynous flowe		c) Epigynous flower	
	fied aerial stems/branches wit		
a) Phylloclades	b) Phyllodes	c) Bulbils	d) Cladodes
477. Identify the stem mo	dification for (A to D)	07111011	
00 A A F			
A	F 9"		
	FT		
C	Y		
a) A-Support, B-Stora	age, C-Vegetative propagation,	D-Protection	
b) A-Storage, B-Supp	ort, C-Vegetative propagation,	D-Protection	
c) A-Storage, B-Supp	ort, C-Protection, D-Vegetative	e reproduction	
d) A-Support, B-Stora	age, C-Protection, D-Vegetative	e reproduction	
478. Which one of the foll	owing is a stem vegetable?		
a) Sweet potato	b) Potato	c) Turnip	d) Carrot
	owing inhibits seed germination		
a) Light	b) Water	c) Caron dioxide	d) Dormancy
480. Identify types of aest	ivation in the given diagrams λ	A to D	



a) A-Valvate, B-Imbricate, C-Twisted, D-Vexillary		b) A-Valvate, B-Twisted, C-Imbricate, D-Vexillary		
c) A-Vexillary, B- Twisted, C-Imbricate, D-Valvate		d) A-Vexillary, B-Imbricate, C-Twisted, D-Valvate		
481. Jowar grain is				
a) Caryopsis b) Pome	e	c) Berry	d) Nut	
482. Vascular bundles are arranged in a	a ring in the memb	ers of family		
a) Orchidaceae b) Irida		c) Euphorbiaceae	d) Liliaceae	
483. Floral formula $\bigoplus \not \subseteq K_5C_5A_7 + _3\underline{G1}$ is	s of family			
	osoideae	c) Caesalpinoidae	d) Malvaceae	
484. Legume plants are important for a	tmosphere becaus	se they		
a) Help in N_2 - fixation		b) Do not help in N ₂ -fixat	ion	
c) Increase soil fertility		d) All of the above		
485. The example for trimerous, unisex	ual flower is			
a) Cocos nucifera b) Hibis	scus	c) Tamarind	d) Pea	
486. Cannabis sativa is the source of				
a) Opium b) LSD		c) Marijuana	d) Cocaine	
487. In the following, succulent stem is	found in			
a) <i>Saccharum</i> b) <i>Musa</i>	and the second second	c) <i>Euphorbia</i>	d) <i>Dryopteris</i>	
488. Study the following table and choo				
	ny sessile bisexual			
inflorescence	flowers	LATTONI		
	ny stalked stamina	ate <i>Poinsettia</i>		
inflorescence	and pistillate			
	ny sessile staminat			
inflorescence	•	e top and pistillate flowers	at the	
		le flowers in between		
VIII. Fleshy axis of		ninate <i>Colocacia</i> flowers at	the	
Inflorescence		late flowers on the top and		
milorescence	flowers in bety		Sterrie	
a) I and III b) I and		c) II and III	d) II and IV	
489. Scorpioid cyme is seen in		c) ii ana iii	a) II and IV	
	otropium	c) <i>Clerodendron</i>	d) <i>Nerium</i>	
490. Arrange the following fruits in des	=		•	
develops.	cending order bas	ed on the number of focule	3 III the ovary from winter it	
IX. Carcerulus				
X. Schizocarp				
XI. Cremocarp				
XII. Regma				
a) II, I, IV, III b) I, IV,	шш		d) II, III, I, IV	
		c) II, IV, III, I	aj 11, 111, 1, 1v	
491. Juicy hair-like structures observed	i iii uie ieiiion irult	•	n	
a) Evergen		b) Mesocarp and endocar	þ	
c) Exocarp		d) Mesocarp		
492. Identify <i>A</i> to <i>D</i> in the given diagram	n			

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- a) A-Epicarp, B-Mesocarp, C-Seed, D-Endocarp
- b) A-Mesocarp, B-Epicarp, C-Seed, D-Endocarp
- c) A-Mesocarp, B-Epicarp, C-Endocarp, D-Seed
- d) A-Epicarp, B-Mesocarp, C-Endocarp, D-Seed
- 493. Identify *A* to *E* in the given diagram



- a) A-Node, B-Internode, C-Accessory bud, D-Primary root, E-Secondary root
- b) A-Node, B-Internode, C-Bud, D-Primary root, E-Secondary root
- c) A-Internode, B-Node, C-Bud, D-Primary root, E-Secondary root
- d) A-Internode, B-Node, C-Callus, D-Primary root, E-Secondary root
- 494. In pea, castor and maize the number of cotyledons are
 - a) 2, 2 and 1 respectively

b) 1, 2 and 2 respectively

c) 2, 1 and 2 respectively

d) 1, 2 and 1 respectively

495. \checkmark stands for (in plants)

- a) Perfect flower
- b) Bisexual flower
- d) Imperfect flower

496. The most common type of ovule in angiosperms is

- a) Amphitropous
- b) Atropous
- c) Anatropous
- d) Circinotropous
- 497. Underground stems of potato, ginger, turmeric, Zaminkand, Colocasia are the examples of modified stem
 - a) Conduction of minerals

b) Conduction of water

c) Both (a) and (b)

d) Storage of food

498. Which of the following is a wheat fruit?

- a) Achene
- b) Cypsella
- c) Caryopis
- d) Endosperm

499. Multicostate parallel type of venation is found in the leaves of

- a) Grass and palms
- b) Banana and Canna
- c) Castor and China rose d) Mango and peepal

500. The edible part of the sweet potato is a modified

a) Stem

b) Root

c) Leaf

d) Flower

501. G_{∞} stands for

- a) Gynoecium, polycarpellary, apocarpous, inferior
- b) Gynoecium, polycarpellary, syncarpous, superior
- c) Gynoecium, polycarpellary, apocarpous, superior
- d) Gynoecium, polycarpellary, inferior, apocarpous inferior

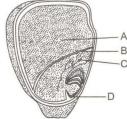
502. The fruit of Solanaceae is

- a) Berry of capsule
- b) Pome
- c) Legume of pod
- d) Drupe

503. An example of axile placentation is

- a) *Argemopne*
- b) *Dianthus*
- c) Lemon
- d) Marigold

504. Scaly bulb stem modificat	tion is seen in		
a) <i>Allium</i>	b) <i>Lilium</i>	c) <i>Scilla</i>	d) <i>Ginger</i>
505. The monocotyledon seed	s consist of one large and sl	nield-shaped cotyledon kno	own as
a) Aleurone layer	b) Scutellum	c) Coleoptiles	d) Hilum
506. An Angiospermic plant ha	as 24 chromosomes in 'mici	cospore mother cells'. The i	number of chromosome in
its endosperm will be			
a) 12	b) 24	c) 36	d) 48
507. K_{2+2} represents			
a) Four petals in two grou	aps	b) Four petals in whorls o	of two each
c) Both (a) and (b)		d) Either (a) or (b)	
508. In angiosperms, male gan	netes are formed from		
a) Antipodals	b) Prothallial cell	c) Tube cell	d) Generative cell
509. Which one of the following	g statements is correct wit	h reference to Amentum?	
	and bears unisexual flower		pasipetal manner
b) The peduncle is conde	nsed and bears bisexual flo	wers and the flowers open	in a centripetal manner
_	drooping and bear unisexu	=	-
	definitely and bears bisexu	al flowers and flowers ope	n in basipetal manner
510. In banana, pineapple and		=	-
	nain stem and then come ol		
These branches are called			to really entered
a) Runner	b) Corm	c) Bulb	d) Sucker
511. Thorn is a modified brand		<i>5</i> , 24.15	a) caesies
a) It is hard, straight and	The second of	b) It is a part of the plant	
c) It arises in the axil of a		d) It is a defensive organ	
512. Lateral roots arise from	Tour	a) it is a defensive organ	
a) pericycle	b) cortex	c) endodermis	d) stele
513. Which of the following pr		_	uj stele
a) Polygalacturonase	b) Colchicine	c) Polyethylene glycol	d) Cellulose
514. The economically import	•	c) i orycurytene grycor	u) cenulose
a) Gossypium hirsutum	and plant of Marvaccae is	b) <i>Hibiscus cannabis</i>	
c) <i>Abelmoschus esculent</i>	um	d) All the above	
515. Tetradynamous stmens a		uj Ali tile above	
a) Malvaceae	b) Solanaceae	c) Cruciferae	d) Liliaceae
516. Diadelphous condition is		c) Gruenerae	u) Linaceae
a) Rosaceae	b) Papilionaceae	c) Leguminosae	d) Cucurbitaceae
517. The ovary is half inferior	•	c) Leguiiiiosae	u) cucui bitaccac
a) Cucumber	b) Cotton	c) Guava	d) Peach
518. The reticulate venation is			u) reach
			d) Thellewhyster
a) Monocot plants	b) Dicot plants	c) Bryophytes	d) Thallophytes
519. The diagram represents t	ne LS of monocot seed. Cho	ose the correct combinatio	ni oi iabeiing.
A B			



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Column I	Column II
Coleorhizae	Radicle
Food storing tissue	

Parthenocarpic fruit	Endosper
Single seeded fruit	m
developing from	Grapes
monocarpellary superior	Mango
ovary	
Membranous seed coat	Maize
	•

	Membranous seed coat	Maize				
	A B C	D				
	a) Aleurone layer Scutellum Cole		a b)	Seed coat	Scutellum Co	oleptile Coleorhiza
	,	nule Coleorhi	,			oleoptile Coleorhiza
	Pneumatophores are the roo		u j	1		
	a) Storing water	765 101	h)	Asexual repro	nduction	
	c) Respiration			Sexual reprod		
	A fruit in which seed coat an	d fruit wall is	-	-		
) Sunflower		us caryopsis p Mango		d) Tomato
	Pneumatophores are usually	-	Cj	Mango		a) Tolliato
) <i>Eichhornia</i>	c)	Avicinnea		d) None of these
	Perigynous type of ovary is	-	Cj	AVICIIIIEA		d) None of these
			a)	Dograh		d) All of those
) Rose	cj	Pearch		d) All of these
	Umbel inflorescence is found		-3	C		1) H-P+
) <i>Colocasia</i>	c)	Coriandrum		d) <i>Helianthus</i>
	In drumstick, the seeds are o	dispersed by	1.3			
	a) Water			Animals		
	c) Wind			Explosive me	chanism	
	A characteristic feature of o	vary of <i>Brass</i>				
	a) Presence of replum			Axile placenta		
	c) Epigynous		d)	Multilocular i	nature	
527.	Vivipary is observed in					
	a) Banyan b) Bryophyllu	1 c)	Ipomoea		d) Rhizophora
528.	Find out the wrongly match	ed pair.	DULH	HION		
	a) Tuber- Potato		b)	Rhizome-Gin	ger	
	c) Bulbil- <i>Agave</i>		d)	Leaf buds-Ba	nana	
529.	In a longitudinal section of a	root, startin	from the tip u	pward the for	ır zones oc	cur in the following order
	:					
	a) Root cap, cell division, cel	l enlargemer	t, cell maturati	on		
	b) Root cap, cell division, cel	l maturation	cell enlargeme	ent		
	c) Cell division, cell enlarger	nent, cell ma	uration, root c	ар		
	d) Cell division, cell maturat	ion, cell enla	gement, root c	ар		
530.	Scientific name of sunflower	· is				
	a) <i>Hibiscus rosa-sinensis</i>		b)	Solanum nigi	um	
	c) <i>Oryza sativa</i>			Helianthus ai		
	Seeds posses spongy aril in		,			
) Potamogeto	n c)	Sagittaria		d) <i>Nymphaea</i>
	Which of the following state	,		υ		<i>y y 1</i>
	a) Replum is found in the ov			The anthers a	re introrse	e in <i>Hihiscus</i>
	c) The ovules are pendulous	=	-	b) The anthers are introrse in <i>Hibiscus</i>d) Lateral style is found in <i>Ocimum</i>		
	Inflorescence in jowar is	1 , 0 1 4 1 1 1 1 0 0	u j	Later ar Style	o round ill	O
	•) Spike	c)	Panicle		d) Head
	United sepals are calledA.		C)	1 amele		a) IIcau
	Free sepals are calledB					
	-					
	Here, A and B refers to					

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Gplus Education as; B-polysepalous

a) A-polysepalous; B-gamosepalous	b) A-gamosepaious; B-polysepaious		
c) A-gamopetalous; B-polypetalous	d) A-polypetalouos; B-ga	amopetalus	
535. Spadix inflorescence occurs in			
a) Mulberry b) Banana	c) <i>Delonix</i>	d) Coriander	
536. The modified stem of <i>Opuntia</i> is	-,	,	
a) Phyllode b) Phylloclade	c) Cladode	d) Staminode	
537. The outer covering of endosperm separates the emb		•	
a) Plumule b) Radicle	c) Aleurone layer	d) Scutelium	
538. Swollen and spongy petioles are characteristic of			
a) <i>Trapa</i> b) <i>Wolffia</i>	c) <i>Ceratophyllum</i>	d) <i>Limnophila</i>	
539. Which one of the following is a monocarpic tree?			
a) <i>Borassus flabellifer</i>	b) <i>Corypha umbraculife.</i>	ra	
c) <i>Phoenix dactylifera</i>	d) <i>Elaeis guineensis</i>		
540. \checkmark stands forA			
⊕ stands forB			
% stands forC			
Here, A to C refers to			
a) A-bisexual plant, B-actinomorphic, C-zygomorphi	С		
b) A-unisexual, B-actinomorphic, C-zygomorphic			
c) A-unisexual, B-zygomorphic, C-actinomorphic			
d) A-bisexual plant, B-zygomorphic, C-actinomorphi	С		
541. A plant is considered to possess all advanced morph	ological characters based	on the evolutionary	
significance. Which one of the following sets of chara			
a) Dioecious condition, gamopetalous corolla and m	-		
b) Actinomorphic flowers, free stamens and endospe	=		
c) Perennial life span, dichlamydous flower and sim			
d) Simple leaves, monoecious condition and apocarp			
	ous pisui		
542. Leaf having single or undivided lamina is called	-) [:4] (-) (-)	4) C 11 f	
a) Compound leaf b) Simple leaf	c) Either (a) or (b)	d) General leaf	
543. Identify the type of aestivation in the given diagram	(A to D)		
A			
c			
a) A-Twisted, B-Valvate, C-Vexillary, D-Imbricate			
b) A-Valvate, B-Twisted, C-Imbricate, D-Vexillary			
c) A-Valvate, B-Twisted, D-Vexillary, D-Imbricate			
d) A-Valvate, B-Vexillary, C-Twisted, D-Imbricate			
544. Identify the order of plants showing alternate, oppos	site and whorled phyllota	ΚV.	
a) China rose, <i>Calotropis</i> and <i>Nerium</i>	b) China rose, <i>Nerium</i> a	-	
c) Nerium, China rose and Calotropis	d) Nerium, Calotropis a	-	
•	aj weriani, caloti opis e	ma Giiiia 103E	
545. Main difference between creepers and trailers is			
a) Creepers are rooted at node while trailers don't			
b) Creepers and not rooted at node while trailers doc) Creepers have internodes while trailers don't			

d) Creepers have node while trailers don't

546. Which one of the	following is an e	xample of cleist	togamy?			
a) Sunflower b) <i>Vallisneria</i> c) <i>Commelina</i> d) <i>Calotropis</i>						
547. In the monocotyledon seeds, the endosperm is separated from the embryo by a distinct layer known as						
a) Testa b) Aleurone			c) Tegmen	d) Epithelium		
548. Arrangement of	petal and sepal w	ith respect to e	ach other is			
a) Placentation	a) Placentation b) Phyllotaxy			d) Anthotaxy		
549. Which of the following members of family-Solanaceae is rich in source of vitamin-C?						
a) Tomato	b) Gua	va	c) Gooseberry	d) Strawberry		
550. Match the following						
XIII. Polysiphonous Poller	– Floral bectaries	-Simple				
	te -Monosiphonous	sieve plate -Synandry				
y	Pollen	-yy				
XV. Inserted stame	•	-Spines				
XVI. Exerted stamer		-Pepo				
	divergent venation					
select the correct pa		ch the former in the	e pair shows the set of charact	ers presents in <i>Cucurbita</i> and the latte		
	e set of character abs					
a) I and III	b) I and		c) II and III	d) III and IV		
551. Which of the following statements are true/false?						
			ristic of dicotyledons.			
	so called walking					
- -	ms, the vascular s	system consists	of xylem without vessel	s and phloem with companion		
cells.		S.L.	>			
	IV. <i>Riccia</i> and <i>Marchantia</i> are liverworts.					
•	a) I and II are true and III and IV are false					
	b) I and III and true and II and IV are false					
•	c) I and IV are true and II and III are false					
•	rue and I and III a		ICATION			
552. Most of the petro		-	707112011			
a) Malvaceae	b) Ruta	aceae	c) Leguminosae	d) Euphorbiaceae		
553. Seeds are	_					
a) Ovules after fertilisation			•	b) Ovules before fertilisation		
c) Ovary before fertilisation		d) Ovary after fertli	sation			
554. Roots arising fro	= =					
a) Adventitious	root b) Stilt	root	c) Nodal root	d) Intermodal root		

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