Exercise-1

ONLY ONE OPTION CORRECT TYPE

SECTION - A # ROOT

1.≿⊾	(1) Ginger	odification (2) Mango Ginger	(3) Potato	(4) Garlic
2.	Climbing roots are pre (1) Loranthus	sent in (2) <i>Curcuma amada</i>	(3) Rose	(4) Piper betle
3.	White spongy floating (1) <i>Trapa</i>	roots occur in (2) <i>Nymphea</i>	(3) Eichhornia	(4) Jussiaea
4.2	In Maize, the fibrous ro (1) Lower nodes	oots develop from (2) Upper nodes	(3) Upper internodes	(4) None of the above
5.≥	Prop roots of Banyan tree are meant for (1) Respiration (3) Retention of water in soil		(2) Absorption of water (4) Providing support to	
6.	Adventitious roots are (1) Function	adventitous in their- (2) Positon	(3) Place of origin	(4) Internal structure
		SECTION	- B # STEM	
1.	Muhlenbeckia (= Cocc (1) Phylloclade	coloba) is an example of (2) Cladode	(3) Stem tuber	(4) Leaves
2.34	Prickles of Rose are (1) Modified leaves (3) Exogenous in origin		(2) Modified stipules(4) Endogenous in origin	
3.	Largest bud is of (1) Cabbage	(2) Cauliflower	(3) Agave	(4) Onion
4.	In <i>Amorphophallus</i> , ve	getative multiplication oc (2) Rhizome	ccurs through (3) Corm	(4) Offset
5.	In <i>Passiflora</i> , the tender (1) Axillary buds	rils are modified (2) Upper leaflets	(3) Whole leaves	(4) Stipules
6.≥	Vegetative reproduction (1) <i>Agave</i>	on occurs by bulbil in (2) <i>Colocasia</i>	(3) Zingiber	(4) Vallisneria
7.8	Thorn is a stem structu (1) Develops from trun (3) Grows from externa	k	(2) Develops from axill (4) is pointed	ary bud

SECTION - C# LEAF

1.৯	Parkinsonia shows one	of the following modification	ations		
	(1) Phylloclade	(2) Cladode	(3) Phyllode	(4) Leaf pitcher	
2.	Adnate stipules occur i	n			
	(1) China Rose	(2) Gardenia	(3) Rose	(4) Cotton	
3.	A portion of leaf blade	can regenerate whole pla	ant in		
	(1) Dioscorea	(2) Bryophyllum	(3) Pineapple	(4) Peepal	
4.৯	Tendrillar stipules occu	r in			
	(1) Dolichos lablab	(2) Acacia	(3) Smilax	(4) Mango	
5.ඎ	Bud scales of Ficus are	e modified			
	(1) Leaves	(2) Stipules	(3) Stem	(4) Prickles	
6.	Spiny leaf margins are	found in			
	(1) Opuntia	(2) Papaver	(3) Argemone	(4) Polyalthia	
7.	Swollen petiole of Eich	<i>hornia</i> has			
	(1) Collenchyma	(2) Chlorenchyma	(3) Parenchyma	(4) Aerenchyma	
8.zs.	Free lateral stipules occur in				
	(1) Mango/Mangifera		(2) Maize/Zea		
	(3) Rice/Oryza		(4) China Rose/Hibiscu	'S	
		SECTION - D # II	NFLORESCENCE		
1.	The inflorescence of O	nion is			
	(1) Cyme umbel	(2) Racemose umbel	(3) Corymb	(4) Catkin	
2.3	Compound umbels occ	ur in			
	(1) Coriandrum	(2) Daucos carota	(3) Foeniculum	(4) All the above	
3.	The glumes are modified				
	(1) Petals	(2) Sepals	(3) Tepals	(4) Bracts	
4.	Three types of flowers	occur in inflorescence of			
	(1) Capitulum	(2) Hypanthodium	(3) Cyathium	(4) Umbel	
5.≽.	Inflorescence having a	flattened axis, sessile flo	wers and a whorl of invo	lucral bracts is	
	(1) Umbel	(2) Head	(3) Corymb	(4) Raceme	
6.	Cyathium and hypanthe	odium types of infloresce	nce are similar in having		
	(1) Nectar glands	(2) Apical pore	(3) Petaloid bracts	(4) Unisexual flowers	
7.	Floral bud tendril is fou	nd in			
	(1) Antigonon	(2) Smilax	(3) Rose	(4) Bryophyllum	
8.≿	Pappus is modification				
	(1) Bracts	(2) Bracteoles	(3) Corolla	(4) Calyx	

SECTION - E # FLOWER

1.	Petals possess claw in					
	(1) Solanaceae	(2) Liliaceae	(3) Malvaceae	(4) Cruciferae		
2.	Aestivation of corolla	n Pea is				
	(1) Contorted	(2) Valvate	(3) Imbricate	(4) Vexillary		
3.≿⊾	If stamens are attached	ed to petals then it is cal	led			
	(1) Antipetalous	(2) Epipetalous	(3) Epiphyllous	(4) Episepalous		
4.	A typical flower with s	uperior ovary and other	floral parts inferior is			
	(1) Polygamous	(2) Hypogynous	(3) Perigynous	(4) Epigynous		
5.	Stamens adnate to pe	erianth are				
	(1) Epiphyllous	(2) Epipetalous	(3) Episepalous	(4) Gynandrous		
6.	In monoadelphous condition, stamens have (1) Filaments of all united in one group but anthers are free (2) Filaments united in groups but all anthers are free (3) Anthers are fused but filaments are free (4) Both anthers and filaments are fused.					
7.	An apocarpous flower (1) Caesalpenia	is found in (2) <i>Ranunculus</i>	(3) Brassica	(4) Datura		
8.	Persistent accrescent	calyx around a berry is	found in			
	(1) Capsicum	(2) Solanum	(3) Physalis	(4) Potato		
9.১	Gynobasic style is fou	Gynobasic style is found in				
	(1) Labiatae/Lamiacea		(2) Liliaceae			
	(3) Gramineae/Poace	ae	(4) Compositae/Aste	eraceae		
10.≿⊾	Syngenesious condition	on is found in				
	(1) Asteraceae	(2) Labiatae	(3) Solanaceae	(4) Fabaceae		
11.	Whorl of small green structures present around Sunflower is					
	(1) Epicalyx	(2) Calyx	(3) Leaves	(4) Involucre		
12.		•	halves by only one pland			
	(1) Zygomorphic	(2) Actinomorphic	(3) Perfect	(4) Regular.		
13.🔈		carpels form a comple				
	(1) Gynostegium	(2) Syngenesious	(3) Gynandrium	(4) Protandrous		
14.	Axile placentation is fo	ound in syncarpous ova	ries. In this placentation	the ovules are arranged along the		
	(1) Base of the ovary		(2) Margin of the ova	ary		
	(3) Axis in the centre of the ovary		(4) None of the above	(4) None of the above		

Find out the false statement from below ones -

15.

	(i) Calyx and corolla are reproductive organs of a flower.					
	(ii) Zygomorphic flower	er can be divided into two	o equal radial halves in a	ny radial plane.		
	(iii) Flowers without br	acts are termed as bract	eate.			
	(iv) Parthenocarpic fru	it is formed after fertiliza	tion of the ovary.			
	(v) In legumes seed is	s non-endospermic				
	(vi) Ovary is inferior in fabaceae					
	(vii) A fertile stamen is	called staminode				
	(viii) Radicle buds deve	elop on roots				
	(1) I, II, III, IV, VI, VII	(2) I, II, V, VIII	(3) III, IV, VIII	(4) IV, V, VIII		
		SECTION -	F # FRUIT			
1.34	Aggregate fruit is forme (1) Polycarpellary apoc (2) Polycarpellary synca (3) An inflorescence (4) Both 1 and 2.	arpous gynoecium				
2.	Fruit developed from a	superior unilocular ovary	which dehisces by one s	suture only is		
	(1) Follicle	(2) Legume	(3) Silicula	(4) Siliqua.		
3.≿	In Asteraceae/Sunflowe	er, the fruit is				
	(1) Drupe	(2) Cypsela	(3) Berry	(4) Carcerulus.		
4.	Which one of the follow	ing is a nut?				
4.	Which one of the follow (1) Walnut	ing is a nut?	(2) Cashewnut			
4.		-	(2) Cashewnut(4) Both 1 and 2.			
4. 5.≿.	(1) Walnut	-	` '			
	(1) Walnut (3) Groundnut/Areca nu	-	` '	(4) Siliqua.		
	(1) Walnut(3) Groundnut/Areca nuFruit of <i>Calotropis</i> is(1) Nut	it (2) Follicle	(4) Both 1 and 2.	(4) Siliqua.		
5. ₂₈	(1) Walnut(3) Groundnut/Areca nuFruit of <i>Calotropis</i> is	it (2) Follicle	(4) Both 1 and 2.	(4) Siliqua.(4) Endosperm.		
5. ₂₈	(1) Walnut(3) Groundnut/Areca nuFruit of <i>Calotropis</i> is(1) NutEdible part of Areca Nu(1) Epicarp	t is (2) Mesocarp	(4) Both 1 and 2.(3) Berry(3) Endocarp			
5. 🖦 6.	(1) Walnut(3) Groundnut/Areca nuFruit of <i>Calotropis</i> is(1) NutEdible part of Areca Nu(1) Epicarp	it (2) Follicle t is	(4) Both 1 and 2.(3) Berry(3) Endocarp			
5. 🖦 6.	 (1) Walnut (3) Groundnut/Areca nut Fruit of <i>Calotropis</i> is (1) Nut Edible part of Areca Nut (1) Epicarp The fruit of <i>Annona squa</i> 	t is (2) Mesocarp	(4) Both 1 and 2.(3) Berry(3) Endocarp			
5. 🖦 6.	(1) Walnut (3) Groundnut/Areca nu Fruit of <i>Calotropis</i> is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of <i>Annona squ</i> (1) Etaerio of berries (3) Hypanthodium	(2) Follicle t is (2) Mesocarp ramosa (Custard Apple)	 (4) Both 1 and 2. (3) Berry (3) Endocarp (5) Etaerio of drupes (4) Etaerio of achenes. 			
5. a. 6. 7.	(1) Walnut (3) Groundnut/Areca nu Fruit of <i>Calotropis</i> is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of <i>Annona squ</i> (1) Etaerio of berries (3) Hypanthodium	t is (2) Mesocarp	 (4) Both 1 and 2. (3) Berry (3) Endocarp (5) Etaerio of drupes (4) Etaerio of achenes. 			
5. a. 6. 7.	(1) Walnut (3) Groundnut/Areca nu Fruit of <i>Calotropis</i> is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of <i>Annona squ</i> (1) Etaerio of berries (3) Hypanthodium In a fruit the pericarp is	(2) Follicle t is (2) Mesocarp ramosa (Custard Apple)	 (4) Both 1 and 2. (3) Berry (3) Endocarp (2) Etaerio of drupes (4) Etaerio of achenes. ngle seed. It is 			
5. a. 6. 7.	(1) Walnut (3) Groundnut/Areca nu Fruit of Calotropis is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of Annona squ (1) Etaerio of berries (3) Hypanthodium In a fruit the pericarp is (1) Nut	(2) Follicle t is (2) Mesocarp ramosa (Custard Apple)	 (4) Both 1 and 2. (3) Berry (3) Endocarp (3) Etaerio of drupes (4) Etaerio of achenes. ngle seed. It is (2) Achene 			
5. 🙉 6. 7.	(1) Walnut (3) Groundnut/Areca nu Fruit of Calotropis is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of Annona squ (1) Etaerio of berries (3) Hypanthodium In a fruit the pericarp is (1) Nut (3) Utricle	(2) Follicle t is (2) Mesocarp ramosa (Custard Apple)	 (4) Both 1 and 2. (3) Berry (3) Endocarp (3) Etaerio of drupes (4) Etaerio of achenes. ngle seed. It is (2) Achene 			
5. 🙉 6. 7.	(1) Walnut (3) Groundnut/Areca nu Fruit of Calotropis is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of Annona squ (1) Etaerio of berries (3) Hypanthodium In a fruit the pericarp is (1) Nut (3) Utricle Lotus fruit is	(2) Follicle t is (2) Mesocarp ramosa (Custard Apple)	 (4) Both 1 and 2. (3) Berry (3) Endocarp (2) Etaerio of drupes (4) Etaerio of achenes. ngle seed. It is (2) Achene (4) Caryopsis. 			
5. 🙉 6. 7.	(1) Walnut (3) Groundnut/Areca nu Fruit of Calotropis is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of Annona squ (1) Etaerio of berries (3) Hypanthodium In a fruit the pericarp is (1) Nut (3) Utricle Lotus fruit is (1) Etaerio of berries	(2) Follicle t is (2) Mesocarp amosa (Custard Apple)	 (4) Both 1 and 2. (3) Berry (3) Endocarp (2) Etaerio of drupes (4) Etaerio of achenes. ngle seed. It is (2) Achene (4) Caryopsis. (2) Etaerio of drupes 			
5. >s. 6. 7. 8.	(1) Walnut (3) Groundnut/Areca nu Fruit of Calotropis is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of Annona squ (1) Etaerio of berries (3) Hypanthodium In a fruit the pericarp is (1) Nut (3) Utricle Lotus fruit is (1) Etaerio of berries (3) Etaerio of achenes	(2) Follicle t is (2) Mesocarp amosa (Custard Apple)	 (4) Both 1 and 2. (3) Berry (3) Endocarp (2) Etaerio of drupes (4) Etaerio of achenes. ngle seed. It is (2) Achene (4) Caryopsis. (2) Etaerio of drupes 			
5. >s. 6. 7. 8.	(1) Walnut (3) Groundnut/Areca nu Fruit of Calotropis is (1) Nut Edible part of Areca Nu (1) Epicarp The fruit of Annona squ (1) Etaerio of berries (3) Hypanthodium In a fruit the pericarp is (1) Nut (3) Utricle Lotus fruit is (1) Etaerio of berries (3) Etaerio of achenes Fruit of Opium Poppy (A	(2) Follicle t is (2) Mesocarp amosa (Custard Apple)	(4) Both 1 and 2. (3) Berry (3) Endocarp (2) Etaerio of drupes (4) Etaerio of achenes. Ingle seed. It is (2) Achene (4) Caryopsis. (2) Etaerio of drupes (4) Capsule.			

11. Dry schizocarpic dehiscent fruit formed from tricarpellary, syncarpous, superior ovary with axile placentation is (1) Regma (2) Septicidal capsule (3) Septifragal capsule (4) Siliqua. 12. In Pineapple, the edible part is (1) Pericarp and thalamus (2) Rachis/peduncle, bracts, perianth and pericarps (3) Mesocarp and endocarp (4) Pericarp and placenta. **SECTION - G # SEEDS** 1. Epigeal germination occurs in (1) Pea (3) Castor (4) Maize. (2) Gram 2.3 Caruncle develops from (1) Outer integument (2) Cotyledon (3) Funiculus (4) Inner integument. 3.3 Scutellum is (1) Single fleshy cotyledon of Trapa (2) Single shield-shaped cotyledon of cereals (4) Covering of radicle. (3) Covering of plumule 4. The storage tissue of Rice and other cereal grains is (1) Embryo (2) Seed (3) Endosperm (4) Fruit. 5.3 An albuminous germination is (1) Castor (3) Gram (4) Pea (2) Bean 6. Oil is stored in the endosperm of (1) Groundnut (2) Soybean (3) Coconut (4) Cashewnut. 7.3 Aleurone layer helps in (1) Storage of food in endosperm (2) Protection of embryo (3) Utilization of stored food (4) All the above. **SECTION - H # FAMILIES OF FLOWERING PLANTS**

1. Which one of the following is correct explanation for the given floral formula?

$$\% \stackrel{Q^{1}}{\leftarrow} K_{(5)}C_{1+2+(2)}A_{(9)+1}\underline{G}_{1}$$

- (1) Zygomorphic, bisexual, sepals five and gamosepalous, petals five and papilionaceous, anthers ten and monadelphous, ovary superior and monocarpellary.
- (2) Zygomorphic, unisexual, sepals five and gamosepalous, petals five and polypetalous, anthers nine united and one free, ovary superior and monocarpellary.
- (3) Zygomorphic, bisexual, sepals five and gamosepalous, petals five and papilionaceous, anthers ten and diadelphous, ovary superior and monocarpellary.
- (4) Zygomorphic, bisexual, sepals five and united, petals five and united, anthers ten and diadelphous, ovary superior and monocarpellary.
- 2. Pulses yielding main family of plants is:-

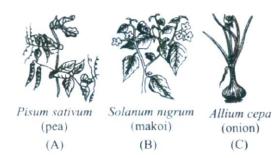
(1) Poaceae (Graminae)

(2) Cucurbitaceae

(3) Liliaceae

(4) Papilionaceae

3. Identify the correct families of the given plant species (A, B and C)



- (1) A-Liliaceae, B-Compositae, C-Malvaceae
- (2) A-Fabaceae, B-Solanaceae, C-Liliaceae
- (3) A-Compositae, B-Malvaceae, C-Liliaceae
- (4) A-Solanaceae, B-Fabaceae, C-Liliaceae
- 4. Many plants of which family are rich source of proteins -
 - (1) Cruciferae
- (2) Leguminosae
- (3) Liliaceae
- (4) compositae
- 5. In family papilionaceae, 5 petals form a unique association, In which 3 different elements participate, these are vexillum, alae & carina. What is the number of these elements-
 - (1) 1, 2, 2 respectively

(2) 2, 1, 2 respectively

(3) 1, 1, 3 respectively

(4) 2, 2, 1 respectively

- 6. Which of the following is not the characteristic features of fabaceae?
 - (1) Tap root system, compound leaves and racemose inflorescence.
 - (2) Flowers actinomorphic, twisted aestivation and gamopetalous.
 - (3) Stamens 10, introrse, basi fixed, dithecous.
 - (4) Monocarpellary, ovary superior and bent stigma.
- 7. Match column-I with column-II and choose the correct option.

Column-I

(Members of Fabaceae)

- A. Gram, sem, moong, soyabean
- B. Soyabean, groundnut
- C. Indigofera
- D. Sunhemp
- E. Sesbania, Trifolium
- F. Lupin, sweet pea
- G. Mulethi
- (1) A-I, B-II, C-III, D-IV, E-V, F-VI, G-VII
- (2) A-VII, B-VI, C-V, D-IV, E-III, F-II, G-I
- (3) A-II, B-IV, C-VI, D-I, E-III, F-V, G-VII
- (4) A-I, B-III, C-V, D-VII, E-II, F-IV, G-VI
- 8. Point out the correct floral formula of cruciferae-

(3) %
$$\overset{\cancel{C}}{+}$$
 K_{2+2} C_{2+2} A_{2+4} $\underline{G}_{(2)}$

$$(4) \oplus {}^{\nearrow} K_{_{A}} C_{_{A}} A_{_{2}} G_{_{2}}$$

Column-II

(Economic importance)

- I. Medicine
- II. Ornamental
- III. Fodder
- IV. Fibres
- V. Dve
- VI. Edible oil
- VII. pulses

9.	Placentation of crucifer (1) Parietal	rae plant is:- (2) Axial	(3) Basal	(4) Marginal	
10.	The special feature of	the ovary in Mustard fam	ily is:-		
	(1) Hypogyny		(2) Polyandry		
	(3) False septum		(4) One row of ovules of	on each placenta	
11.	Epipetalous stamen, obliquely placed placenta family		a and fruit berry or cap	sule are diagnostic features of	
	(1) Cruciferae	(2) Solanaceae	(3) Malvaceae	(4) Labiatae	
12.	Ornamental plant 'Tulip	b' belongs to which family	/		
	(1) Asterceae	(2) Brassicaceae	(3) Solanaceae	(4) Liliaceae	
13.	Floral diagram is - (1) The figure of a flow (3) L.S. of a flower	er	(2) The three dimensio (4) T.S. of a floral bud	nal appearance of a flower	
	_		. ,		
14.	⊕ Ç [#] P ₍₃₊₃₎ A ₃₊₃ G ₍₃₎ is floral to (1) Liliaceae	formula of (2) Brassicaceae	(3) Asteraceae	(4) Poaceae	
15.	Colchicine alkaloid obt	ained from the member o	of which family		
	(1) Leguminosae	(2) Malvaceae	(3) Liliaceae	(4) Cruciferae	
16.	Subfamilies of Legumin	nosae family are differen	tiated on the basis of		
	(1) Gynoecium		(2) Corolla & Androecium		
	(3) Nature of plant		(4) Nature of fruit		
17.	Axile placentation occu	ırs in			
	(1) Asteraceae and Fa		, ,	(2) Brassicaceae and Solanaceae	
	(3) Solanaceae and Lil	iaceae	(4) Brassicaceae and L	Liliaceae	
18.	Soyabean belongs to				
	(1) Fabaceae	(2) Poaceae	(3) Solanaceae	(4) Asteraceae	
19.	Most leguminous plant	s have -			
	(1) Simple petiolate lea		(2) Simple sessile leaves		
	(3) Pinnately compoun	d leaves	(4) Palmately compour	nd leaves	
20.		erior ovary with axile plac			
	(1) Liliaceae	(2) Cucurbitaceae	(3) Solanaceae	(4) Asteraceae.	
21.	In scapigerous umbel t	he flowers are arranged	in manner		
	(1) Corymb		(2) Umbel		
	(3) Panicle		(4) Monochasial scorpi	od cyme	
22.🖎		ub family Papilionatae is			
	(1) Br % ${}^{\mbox{q}^{\prime}} K_{(5)} C_{_{1+2+(2)}} A$	1 1+ (9) G ₁	(2) Br $^{\oplus Q^{-}}$ $K_{(5)}C_5 A_{1+(9)}$	<u>, G</u> ,	
	(3) Br % ${}^{\checkmark}K_{_{(5)}}C_{_{1+2+(2)}}A$	N ₉₊₁ <u>G</u> 1	(4) Ebr or Br % $K_{(5)}C_{1+2+(2)}A_{10}\underline{G}_{1}$		

23.🖎	Which of the following genera is Characterised by the production of geocarpic fruits				
	(1) Cucurbita	(2) Pisum	(3) Glycine	(4) Arachis	
24.	Blue dye is obtained fro	om the leaves of			
	(1) Indigofera tinctoria	(2) Opium	(3) Aloe	(4) Delbergia sisoo	
25.৯	The name Papilionatae	and Cruciferae is based	d on		
	(1) Corolla	(2) Androecium	(3) Gynoecium	(4) Fruit	
26.	Parkinsonia is an exam	ple of			
	(1) Phylloclade		(2) Winged fruit		
	(3) Parachute mechanis	sm	(4) Phyllode		
27.	In which of the family th	ne stamens are in two wh	norls and epiphyllous		
	(1) Malvaceae	(2) Solanaceae	(3) Liliaceae	(4) Caesalpinoideae	
28.	Which of the following is	s a characteristic feature	e of fabaceae?		
	(1) Descending imbrica	te, ten stamens, diadelp	hous, ovary inferior		
	, , ,	epalous, imbricate aestiv	·		
		ry inferior, style long, slig			
	. ,	rs, vexillary aestivation lles, placentation margin	•	ry, ovary superior, diadelphous	
00			- -		
29.	Colchicum autumnale is (1) Brassicaceae	s a member of (2) Liliaceae	(3) Poaceae	(4) Fabaceae	
		(2) Lindocae	(0) 1 000000	(4) 1 ababbab	
30.	Red Pepper is		(2) Colonym nigrym		
	(1) Capsicum annum(3) Lycopersicum escul	lentum	(2) Solanum nigrum (4) Physalis peruviana.		
		onam	(1) Thyound poruviaria.		
31.	Oil yielding legume is	(0) Ohaina an	(O) Disimus	(4) Viena a in anais	
	(1) Carthamus	(2) Glycine max	(3) Ricinus	(4) Vigna sinensis.	
32.	Lycopersicum esculent	•			
	(1) Brassicaceae	(2) Solanaceae	(3) Liliaceae	(4) Poaceae	
		MISCELLANEO	US QUESTIONS		
		RC	ОТ		
1.	Root cap is absent in				
	(1) Hydrophytes	(2) Lithophytes	(3) Xerophytes	(4) Mesophytes.	
2.	Velamen containing str	uctures of epiphyte Vand	da are		
	(1) Stems	(2) Absorbing roots	(3) Hanging roots	(4) Clinging roots.	
3.	Bacteria found in root n	odules of legumes are			
	(1) Nitrobacter	(2) Nitrosomonas	(3) Rhizobium	(4) Azotobacter	
4.	A plant with photosynth	etic roots is			
	(1) Trapa	(2) Dahlia	(3) Momordica	(4) Mirabilis	

5.	Storage roots found in (1) Nodulose roots	n clusters at base of stem (2) Annulated roots	are (3) Tuberous roots	(4) Fasciculated roots
6.	Pneumatophores are characteristic features of (1) <i>Hydrilla</i> (3) <i>Rhizophora/Sonneratia</i>			
7.	A plant with epidermis specialised to absorb moi (1) Avicennia (2) Vanda		oisture from air is (3) <i>Rhizophora</i>	(4) Jussiaea
8.	Hygroscopic roots occur in (1) Vanda (2) Rhizophora		(3) Bryophyllum	(4) All the above
9.	Roots originating from (1) Stilt roots	parts other than radicle (2) Adventitious roots		(4) Fibrous roots
10.	Root cap does not occ (1) <i>Ipomoea</i>	cur in (2) Mangrove plants	(3) Pandanus	(4) Pistia
11.	Outer covering of epip (1) Osmophore	ohytic root is (2) Rhizophore	(3) Pneumatophore	(4) Velamen
12.	Match the column Column I (i) Tubercular storage (ii) Pneumatophores (iii) Haustoria (iv) Stilt roots (v) Assimilatory roots (1) (i)-c, (ii)-b, (iii)-d, (iii)-d, (iii)-e, (iiii)-e, (iii)-e, (iii)-e,	b. Heritiera c. Asparagus d. Viscum e. Screwpine	(2) (i)-b, (ii)-c, (iii)-d, (i (4) (i)-c (ii)-a (iii)-b (iv)	
13.	The aerial, short and l	oranched roots of an auto	otrophic plant that provid (3) velamen roots	e stability are known as (4) Clinging roots
14.	Roots are absent in (1) Wolffia	(2) Podostemon	(3) Pistia	(4) Lemna
		S	TEM	
15.	Stem tendrils occur in (1) Smilax	(2) Gloriosa	(3) Vitis	(4) Lathyrus
16.	Phylloclade is found in (1) <i>Chrysanthemum</i>	n (2) <i>Asparagu</i> s	(3) Ruscus	(4) Opuntia
17.	Thick underground ste	em growing parallel to so (2) Rhizome	il surface is (3) Sucker	(4) Offset.
18. 19.	Green leaf-like one in (1) Phylloclades Edible part of Ginger i	ternode long stem branch (2) Phyllodes s	nes/phylloclades are call (3) Bulbils	ed (4) Cladodes

	(1) Corm	(2) Rhizome	(3) Bulb	(4) Tuber
20.	Phylloclades are (1) Leaf modifications (3) Modified petioles		(2) One internode long (4) Green succulent ste	stems ems of indefinite growth
21.	A rhizome which grows (1) Corm	vertically upward is (2) Stolon	(3) Bulbil	(4) Rootstock
22.	Bamboo is (1) Culm	(2) Bulb	(3) Runner	(4) Twiner
23.	Turmeric powder is obt	ained from (2) <i>Curcuma amada</i>	(3) Cucurbita sativa	(4) Cassia tora
24.	Which one is found onl (1) Runner	y in aquatic plant? (2) Stolon	(3) Tuber	(4) Offset
25.	Ginger multiplies veget (1) bud	atively by (2) tuber	(3) stem	(4) rhizome
26.	In <i>Ruscus</i> , the stem is (1) Phyllode	a (2) Cladode	(3) Offset	(4) Sucker
27.	In turmeric, stem is a (1) Tuber	(2) Bulb	(3) Rhizome	(4) Corm
		LE	AF	
28.	Phyllode is a (1) Modified leaf	(2) Modified root	(3) Modified stem	(4) Petiole
29.	The spines of Cacti are (1) Scales	e modified (2) Stems	(3) Leaves	(4) Petioles
30.	Leaf apex is modified in (1) Smilax	nto tendril in (2) <i>Gloriosa</i>	(3) Australian Acacia	(4) Pisum
31.	Petiole is modified into (1) <i>Passiflora</i>	tendril in (2) <i>Gloriosa</i>	(3) Pisum	(4) Clematis
32.	Presence of sheathing (1) <i>Cycas</i> leaf	leaf base and ligule are (characteristic of (3) Banana leaf	(4) Grass leaf
33.	Arrangement of leaves (1) Phyllotaxy	in the bud condition is (2) Ptyxis	(3) Vernation	(4) Venation
34.	Occurrence of different (1) Heterophylly	types of leaves in <i>Limno</i> (2) Pseudophylly	ophylla is called (3) Heterophily	(4) Heterotrophy
35.	In Sweet Pea, the tend (1) Stem branches	rils are modified (2) Leaflets	(3) Leaves	(4) Stipules
36.	Bombax leaf is			

	(1) Tripinnate	(2) Unipinnate	(3) Multifoliate	(4) Quadrifoliate
37.	Leaves develop from (1) Nodes	(2) Internodes	(3) Epidermis	(4) Endodermis
38.	Phyllode is found in (1) <i>Clematis</i>	(2) Gloriosa	(3) Acacia	(4) Dischidia
39.	Pick up the leaf modif (1) Cladode	ication (2) Phyllode	(3) Corm	(4) Phylloclade
40.	Identify the order when (1) China Rose, <i>Calo</i> (3) <i>Nerium</i> , China Ro	tropis and Nerium	e, opposite and whorled p (2) China Rose, Nerio (4) Nerium, Calotropi	um and Calotropis
41.	Pulvinus is found in (1) <i>Calotropis</i>	(2) Ocimum	(3) Legume plants	(4) Alstonia
42.	Stipules are modified into spines in. (1) Citrus and Euphorbia (2) Euphorbia and Zizyphus (3) Ziziphus and Bougainvillea (4) Citrus and Bougainvillea			
43.	A compound leaf which (1) Hardwickia	ch appears simple due (2) <i>Parkinsonia</i>	to suppression of 1-2 late (3) <i>Citrus</i>	ral leaflets is found in (4) <i>Coriandrum</i>
44.	(1) Sweet Pea, Cat's(2) Sweet Pea, Cat's(3) Nepenthes, Sweet	nto tendrils, hooks, pito Nail (<i>Bignonia</i>), <i>Nepeni</i> Nail, <i>Utricularia</i> , <i>Nepen</i> t Pea, Cat's Nail, <i>Utricu</i> thes, Cat's Nail, Sweet	thes, Utricularia thes Ilaria	
		INFLO	RESCENCE	
45.	The ratio of female to (1) Hypanthodium	male flowers is 1 : α . It (2) Cyathium	is found in (3) Catkin	(4) Verticillaster
46.	Inflorescence having (1) Spike	unisexual sessile flowe (2) Spikelet	rs is (3) Catkin	(4) Spadix
47.	Inflorescence of Sunf (1) Umbel	lower is (2) Cyathium	(3) Hypanthodium	(4) Capitulum
48.	(2) In raceme the mai (3) Spadix is a pendu			•
49.	Which is not a correct	t match		

	(1) Catkin - Mulberry(3) Corymb - Candytuft		(2) Capitulum - Sunflower (4) Raceme - Wheat	
50.	Edible part of Cauliflo (1) Cotyledons	wer is (2) Mesocarp	(3) Endocarp	(4) Inflorescence
51.	Number of female flow	wers found in cyathium is (2) 2	(3) 3	(4) Several
52.	Cyathium inflorescend (1) <i>Morus</i>	ce is found in (2) <i>Dorstenia</i>	(3) Ficus	(4) Euphorbia
53.	Inflorescence of Liliace (1) Actinomorphic	ceae is (2) trimerous	(3) pentamerous	(4) imperfect
		FLC	WER	
54.	Monothecous anthers occur in (1) Hibiscus rosa-sinensis/Malvaceae (3) Brassica oleracea/Cruciferae		(2) Allium cepa/Liliac (4) Solanum nigrum/S	
55.	Stamens of Jowar/Gr (1) Dorsiflxed	ass are (2) Versatile	(3) Basiflxed	(4) Adnate
56.	(1) One whorl alterna (2) Two whorls with o	uter whorl opposite the pe uter whorl alternating with	etals	
57.		arranged in such a way to other side. The aestivation (2) Quincuncial	·	tal on one side and is overlapped (4) Twisted
58.	Individual component (1) Sepals	s of corolla are called (2) Petals	(3) Tepals	(4) Bracts
59.	Saffron is (1) Stamens of <i>Hibiscus</i> (3) Roots of <i>Indigofora</i>		(2) Style and stigma of <i>Crocus</i> plant(4) Petals of <i>Musa</i>.	
60.	Gynoecium having three fused carpels with a si (1) Tricarpellary, syncarpous, unilocular (3) Tricarpellary, syncarpous, trilocular		single ovule containing chamber is (2) Tricarpellary, polycarpellary, unilocular (4) Tricarpellary, polycarpellary, trilocular	
61.	Clove used as spice r (1) Seed	represents (2) Leaves	(3) Flower buds	(4) Stem tip
62.	Arrangement of ovule (1) Parietal placentati (3) Marginal placenta		oped from central axis of (2) Basal placentation (4) Axile placentation	i I
63	The position of overv	is halow sanals, natals ar	nd stamons. The flower	ie

- (1) Epigynous
- (2) Perigynous
- (3) Mesogynous
- (4) Metagynous.

- **64.** Identify the wrong statement
 - (1) A plant that bears male, female and bisexual flowers is polygamous
 - (2) Actinomorphic flower can be dissected into two equal halves from any plane
 - (3) Superior ovary is found in hypogynous flowers
 - (4) Side of the flower towards the bract is called posterior side.
- **65.** Compare the columns and find out the correct combination.

	Column I		Column II
а	Tridax	(i)	Synandrous
b	Dolichos	(ii)	Monoadelphous
С	Ceiba	(iii)	Syngenesious
d	Cucurbita	(iv)	Polyadelphous
		(v)	Diadelphous

- (1) (a) (iv), (b) (v), (c) (ii), (d) (i)
- (2) (a) (iii), (b) (v), (c) (iv), (d) (i)
- (3) (a) (iii), (b) (v), (c) (i), (d) (iv)
- (4) (a) (v), (b) (iii), (c) (iv), (d) (ii)
- **66.** Colour of *Bougainvillea* flower is due to colour of its
 - (1) Corolla
- (2) Bracts
- (3) Calyx
- (4) Androecium
- 67. Non-essential floral organs without differentiation of calyx and corolla are called
 - (1) Thalamus
- (2) Pedicel
- (3) Perianth
- (4) Lodicules

- **68.** Epicalyx occurs in
 - (1) Cycas
- (2) Jowar
- (3) Nephrolepis
- (4) China Rose

- 69. Bract is a modified
 - (1) Petal
- (2) Sepal
- (3) Leaf
- (4) Involucre

- **70.** The term "Keel" is used for special type of
 - (1) Sepals
- (2) Petals
- (3) Stamens
- (4) Carpels

- **71.** Polyadelphous stamens are found in
 - (1) Cotton
- (2) Sunflower
- (3) Grain
- (4) Lemon

- **72.** Replum is the characteristic feature of the
 - (1) Asteraceae
- (2) Brassicaceae
- (3) Malvaceae
- (4) Liliaceae

- **73.** Flowers are zygomorphic in
 - (1) Mustard
- (2) Radish
- (3) lily
- (4) Candytuft

FRUIT

- **74.** Fruit of Candytuft is
 - (1) Capsule
- (2) Follicle
- (3) Silicula
- (4) Lomentum

- **75.** Fruit of coconut is
 - (1) Berry
- (2) Cypsela
- (3) Drupe
- (4) Cremocarp

76. Coir is obtained from

	(1) Fruit of Cocos nuc (3) Stem of Cocos nuc	• •		
77.	Edible part of Mulberry	y is (2) Perianth	(3) Rachis	(4) Ripened ovary
78.	Aril is (1) Outgrowth of integ (2) Persistent nucellus (3) Outgrowth of funic (4) Outgrowth from mi	s le which grows around th	e ovule	
79.	Fruit formed from an in (1) Simple fruit	nflorescence is (2) Pseudocarp	(3) Composite fruit	(4) Aggregate fruit
80.	Fruit of Elephant Apple (1) Balausta	e (<i>Dillenia indica</i>) is (2) Pepo	(3) Amphisarca	(4) Berry
81.	A dry indehiscent fruit (1) Caryopsis	is (2) Follicle	(3) Capsule	(4) Pod
82.	Drupes are called stor (1) Hard endocarp (3) Hard epicarp	ny fruits as they have	(2) Hard mesocarp (4) Hard epicarp and h	ard meso carp
83.	Edible part in sorosis f	ruit is (2) Perianth + sepals	(3) Placenta	(4) Perianth + placenta
84.	A fruit that has fleshy (1) Pome	mesocarp and stony endo	ocarp is (3) Pepo	(4) Drupe
85.	Lomentum is (1) Achenial fruit	(2) Schizocarpic fruit	(3) Composite fruit	(4) Syconus fruit
86.	Edible part in the fruit (1) Endocarp	of Hesperidium is (2) Mesocarp	(3) Juicy hairs	(4) Pericarp
87.	A small, dry, one-se monocarpellary gynoe (1) Cypsela		ricarp fused with the (3) Caryopsis	seed-coat, developing from a (4) Samara
88.	Lady finger (bhindi) be	elongs to (2) Cruciferae	(3) Solanaceae	(4) Liliaceae
89.	From which part of co-	conut coir is obtained (2) Mesocarp	(3) Epicarp	(4) Endocarp
90.	Stony endocarp is fou (1) Aggregate fruit	nd in (2) Drupe fruit	(3) Berry fruit	(4) Pome fruit
91.	The fruit of Composita (1) Aggregate	ne is (2) Cypsela	(3) Drupe	(4) Pome

92.	Edible part of litchi is (1) Semilla	(2) Aril	(3) Pericarp	(4) Pedicel	
93.	Pome fruit is found in (1) Mango	(2) Apple	(3) Litchi	(4) Peach	
	,, ,		EDS	,	
94.	Mitochondria produce (1) Formation of seed (3) Dormant seed	more energy during	(2) Seed maturation(4) Seed germination		
95.	Embryo of Sunflower h	as (2) Two cotyledons	(3) Many cotyledons	(4) No cotyledon	
96.	Which of the following (1) Sunflower	is an oil seed plant? (2) <i>Hibiscu</i> s	(3) Marigold	(4) Rose	
97.	In Groundnut, oil is sto (1) Embryo axis	red in (2) Endosperm	(3) Cotyledons	(4) None of the above	
98.	Dry fruit 'Chilgoza' is (1) Fruit of <i>Cycas</i> (3) Fruit of <i>Pinus gerardiana</i>		(2) Seed of <i>Cycas</i> (4) Seed of <i>Pinus gerardiana</i>		
99.	A dicot plant lacking co	otyledons is (2) <i>Santalum</i>	(3) Lodoicea	(4) None of the above	
100.	In Maize grain, plumule	e is covered by protective (2) Coleorrhiza	e sheath called (3) Coleoptile	(4) Tegmen	
101.	Seeds possess spongy (1) Eicchornia	aril in (2) <i>Potamogeton</i>	(3) Sagittaria	(4) Nymphea	
102.	Endosperm is not com (1) Gram	pletely consumed during (2) Pea	g embryo development in (3) Bean	seeds of (4) Castor	
103.	Seed coat is not thin, n	nembranous in: (2) Groundnut	(3) Gram	(4) Maize	
		FAMILIES OF FLO	OWERING PLANTS		
104.	Belladona is obtained f	rom (2) <i>Hyoscyamus</i>	(3) Calendula	(4) Aconitum	
105.	. , .	eeds of which oil is obtai	. ,	()	
	(1) Cicer arietinum	Joan of Willott oil is obtain	(2) Saccharum officina	rum	
	(3) Saccharum munja		(4) Arachis hypogea		
106.	Largest family of flowe (1) Fabaceae	ring plants is (2) Liliaceae	(3) Poaceae	(4) Asteraceae	

107.	Seeds which are used (1) Xanthium	as Jeweller's weight (2) Abrus precatorius	(3) Calotropis	(4) Thespasia
108.	Cladode is the modific (1) Leaf	ation of (2) Root	(3) Petiole	(4) Stem
109.	The fruit of orange is (1) Pepo	(2) Pome	(3) Hesperidium	(4) Drupe
110.	Diadelphous condition (1) Solanaceae	occurs in (2) Fabaceae	(3) Asteraceae	(4) Liliaceae
111.	Flower of Fabaceae is (1) Complete, zygomorphic, pentamerous (3) Incomplete, zygomorphic, trimerous		(2) Complete, actinomo	
112.	2. Family Liliaceae is characterised by (1) Trimerous flower (3) Pentamerous flower (4) Zygomorphic flower			
113.	In sweet pea tendrils a	re modified (2) Stem	(3) Leaf	(4) Leaflet
114.	In which of the follow covered by previous of (1) Valvate	=	& petals one margin of(3) Imbricate	covers the other & its margin is (4) Quincuncial
115.	Swollen placentae, obl	lique septum and epipeta (2) Asteraceae	alous stamen are charact	eristics of family (4) Solanaceae
116.	Epipetalous stamens a	and axile placentation are (2) Leguminosae	found in (3) Malvaceae	(4) Liliaceae
117.	Floral diagram represe (1) Position of Flower (3) Structure of Flower		(2) Number and arrang (4) Nature of plant	gement of floral parts
118.	Green Gram is (1) <i>Vigna radiata</i>	(2) Vigna mungo	(3) Phaseolus vulgaris	(4) Phaseolus coccineus
119.	Which of the following (1) Guava	members of family Solar (2) Gooseberry	naceae is rich in vitamin (C (4) Tomato
120.	In Solanaceae the fruit	t is (2) Berry or Capsule	(3) Siliqua	(4) Pod or achene
121.	Perianth occurs in fam (1) Solanaceae	ily (2) Fabaceae	(3) Brassicaceae	(4) Liliaceae
122.	Aloe used in medicine (1) Solanaceae	belongs to family (2) Liliaceae	(3) Asteraceae	(4) Malvaceae

- 123. Leguminous plant used for prevention of Parkinson's syndrome is
 - (1) Acacia catechu
- (2) Acacia arabica
- (3) Abrus precatorius
- (4) Arabidopsis
- 124. Monocarpellary ovary, diadelphous androecium and marginal placentation occur in
 - (1) Brassicaceae
- (2) Asteraceae
- (3) Liliaceae
- (4) Papilionaceae/Fabaceae

- 125. Lady finger (Bhindi) belongs to
 - (1) Malvaceae
- (2) Cruciferae
- (3) Solanaceae
- (4) Liliaceae

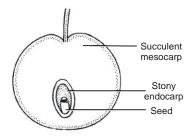
- **126.** Replum is the characteristic feature of the
 - (1) Asteraceae
- (2) Brassicaceae
- (3) Malvaceae
- (4) Liliaceae

- 127. Coffee and Quinine are obtained from the plants of
 - (1) Leguminosae
- (2) Asteraceae
- (3) Rubiaceae
- (4) Poaceae
- 128. Which of the following includes largest number of genera and species of plants?
 - (1) Brassicaceae
- (2) Liliaceae
- (3) Malvaceae
- (4) Asteraceae

- 129. Flowers are zygomorphic in
 - (1) Mustard
- (2) Radish
- (3) Lily
- (4) Candytuft

Exercise-2

1.# Wall of ovary of flowering plants gets converted as a result of fertilization. The type of ovary wall shown facilitates.(2nd INBO)



(1) Wind dispersal

(2) Animal dispersal

(3) Water dispersal

- (4) Mechanical dispersal
- 2. A fruit developed from a condensed inflorescence is

(2nd NSO II L)

- (1) Simple fruit
- (2) Aggregate fruit
- (3) Composite fruit
- (4) Etaerio
- 3. The tissue in plant seeds that serves the same nutritive function as yolk in chicken embryos is the
 - (1ST ABO)

- (1) Seed coat
- (2) Endosperm
- (3) Epicotyl
- (4) Embryo

4.8	Flower with a feathery	and sticky stigma, nume	rous light pollen, reduced	d petals is characteristically.
				(2 nd NSEB)
	(1) Moth pollinated flow	ver er	(2) Bird pollinated flower	er
	(3) Bee pollinated flower	er	(4) Wind pollinated flow	ver
5.≽.	The fruits showing edib	le thalamus are		(3 rd NSEB)
	(1) Apple, custard apple		(2) Apple, strawberry, p	, ,
	(3) Pear, pineapple, str	•	(4) Jackfruit, guava, pir	
6.	A fruit dehiscing by bot is	h the sutures and derive	ed from monocarpellary o	ovary with marginal placentation (2 nd NSEB)
	(1) Follicle	(2) Siliqua	(3) Legume	(4) Berry
7.	Which one of the follow plant?	wing structure found in	dicot seed will be genet	ically identical with its maternal (4th NSO I L)
	(1) Testa	(2) Radicle	(3) Plumule	(4) Cotyledon
8.	(i) Four or five petals in(ii) Parallel leaf veins(iii) Fibrous roots system	each flower	cotyledon plants typically	
	(1) (i) only	(2) (iii) only	(3) (i) and (ii) only	(4) (ii) and (iii) only
9.#	Which of the following primitive?	condition/s of attachem	nent between the anther	lobes and filament is/are most (4th NSEB)
		(a) (b) (c)	
	(1) (a)	(2) (b)	(3) (c)	(4) Both (a) and (b)
10.				er two inner whorls produce the inside, in correct order are (1st NSEB)
	(1) Stamens, carpels, radicle and petals(3) Petals, sepals, stamens and carpels		(2) Carpels, petals, sta(4) Sepals, petals, stan	•
11.৯	Plants with inferior ovar	ry always bear		(NSEB 1 ST 2012)
	(1) Pseudocarps	(2) berries	(3) aggregate fruits	(4) seedless fruits
12.5	One can distinguish a le (1) midrib	eaflet from leaf by the ab	osence of (3) axillary bud	(NSEB 1 ST 2011) (4) venation
13.	The odd one among the (1) cladode	e following is (2) phyllode	(3) staminode	(NSEB 1 ST 2011) (4) phylloclade

Exercise-3

PART - I: NEET / AIPMT QUESTION (PREVIOUS YEARS)

ROOT

1.	Which of the following	g plants are used as gre	en manure in crop fields ar	nd in sandy soils?
	(1) Crotolaria juncea a(2) Calotropis procera(3) Saccharum munja(4) Dichanthium annu	(AIPMT-2003)		
2.	(1) Root cap, cell divis(2) Root cap, cell divis(3) Cell division, cell r	ent starting from root tipsion, cell enlargement a sion, cell maturation and maturation, cell enlarger enlargement, cell maturation.	nd cell maturation. I cell enlargement. nent and root cap.	(AIPMT-2004)
3.	Sweet potato is homo	•	(2) Cingor	(AIPMT mains-2011)
	(1) Potato	(2) Colocasia	(3) Ginger	(4) Turnip
4.		nt role in absorption of v		(RE AIPMT-2015)
	(1) Pistia	(2) Pea	(3) Wheat	(4) Sunflower
5.	Root hairs develop fro	om the region of:		(NEET-2017)
	(1) Maturation	(2) Elongation	(3) Root cap	(4) Meristematic acticvity
6	Sweet potato is a mod	dified		(NEET-2018)
	(1) Stem		(2) Rhizome	
	(3) Tap root		(4) Adventitious root	
		5	STEM	
7.	Eye of Potato is			(AIPMT-2001)
	(1) Apical bud	(2) Axillary bud	(3) Accessory bud	(4) Adventitious bud.
8.	The "Eyes" of the pot	ato tuber are		(Pre AIPMT-2011)
	(1) root buds	(2) flower buds	(3) shoot buds	(4) axillary buds
9.	Which one of the follo	owing is correctly match	ned	(AIPMT Pre2012)
	(1) Onion - Bulb	,	(2) Ginger - Sucker	,
	(3) Chlamydomonas -	Conidia	(4) Yeast - Zoospores	
10.	An example of edible	underground stem is		(AIPMT-2014)
	(1) Carrot	(2) Groundnut	(3) Sweet potato	(4) Potato
11.	In ginger vegetative p	ropagation occurs throu	ıah	(AIPMT-2015)
	(1) Offsets	(2) Bulbils	(3) Runners	(4) Rhizome
	•	•	* *	

12.	Which of the following pairs is not correctly matched? Mode of reproduction Example			(R	e-AIPMT-2015)
	(1) Rhizome(2) Binary fission		Banana <i>Sargassum</i>		
	(3) Conidia(4) Offset		Penicillium Water hyacinth		
13.	Stems modified into fla (1) Scales	at green organs performing (2) Cladodes	ng the functions of leaves (3) Phyllodes	s are known as: (4) Phylloclad	•
14	In Bougainvillea thorns (1) Stipules	s are the modification of: (2) Adventitious root	(3) Stem	(4) Leaf	(NEET-2017)
		LE	EAF		
15.	Whorled, simple leave (1) <i>Calotropis</i>	s with reticulate venation (2) Neem	are present in (3) China Rose	(AIP (4) Alstonia	MT mains-2011)
16.	Phyllode is present in	:		(A	IPMT Pre2012)
	(1) Asparagus	(2) Euphorbia	(3) Australian Acacia	(4) Opuntia	
17.		ed Botanist. While walki storing food. She dug u	•		wanted to show (AIPMT-2014)
	(1) Cactus	(2) potato	(3) ginger	(4) garlic	
18.	Leaves become modif (1) Cactus	ied into spines in (2) Rose	(3) Citrus	(4) Pistia	(AIPMT-2014)
19.	Leaves become modif	ied into spines in			(AIPMT-2015)
	(1) Pea	(2) Onion	(3) Silk Cotton	(4) Opuntia	
20.	(1) Flattened structure	is not a stem modifications of Opuntia	(2) Pitcher of Nepenth	es	(NEET-I - 2016)
	(3) Thorns of citrus		(4) Tendrils of cucumb		
21.	Which of the following (1) Mustard	shows whorled phyllotax (2) China rose	ky? (3) Alstonia	(NEE (4) Calotropi	: T-2-2019) s
22.	Bicarpellary ovary with (1) Brassica	n obliquely placed septun (2) Aloe	n is seen in : (3) Solanum	(NEET (4) Sesbania	T-2-2019)
23.	Match the placental ty Column–I	pes (column-I) with their Colu n	. , ,	(NEE	T-2-2019)
	(a) Basal	(i) Mustard			
	(b) Axile (c) Parietal	(ii) China rose (iii) Dianthus			
	(d) Free central	(iv) Sunflower			
	` '	swer from the following			
	(1)(a)-(ii), (b)-(iii),(c)-(i	v), (d)-(i)			
	(2) (a)-(i), (b)-(ii), (c)-(i				
	(3) (a)-(iv), (b)-(ii), (c)- (4) (a)-(iii), (b)-(iv), (c)-				

INFLORESCENCE

24.	Catkin inflorescence is	s found in		(AIPMT, RPMT-2011)		
	(1) Wheat	(2) Oat	(3) Mulberry	(4) Fig		
25.	A racemose type of in	florescence with its main	n axis almost flat is called	(AIPMT RPMT-2011)		
	(1) Corymb	(2) Umbel	(3) Spike	(4) Capitulum		
26.	Spathe is present in th	ne flowers of		(AIPMT RPMT-2011)		
	(1) Banana	(2) Rice	(3) Marigold	(4) Sunflower		
27.	Cymose inflorescence	is present in:		(AIPMT Pre2012)		
	(1) Solanum	(2) Sesbania	(3) Trifolium	(4) Brassica		
		FL	OWER			
28.	Bicarpellary gynoeciur	n with oblique ovary occ	curs in	(AIPMT-2001)		
	(1) Banana	(2) Brinjal	(3) Pisum	(4) Mustard.		
29.	An ovule bent to come	e at right angles to funicl	le is	(AIPMT-2004)		
	(1) Anatropous	(2) Orthotropous	(3) Campylotropous	(4) Hemitropous.		
30.	Anthesis is			(AIPMT-2004)		
	(1) Opening of floral bud		(2) Development of an	` ,		
	(3) Maturation of anthe	ers	(4) Reception of poller	n by stigma.		
31.≿⊾	Tetradynamous condit	tion occurs in		(AIPMT- 2004)		
	(1) Petunia hybrida		(2) Helianthus annuus	3		
	(3) Brassica campestr	is	(4) Hibiscus rosa sine	nsis.		
32.	Long filamentous threa	ads protruding at the en	d of young cob of Maize a	are (AIPMT-2006)		
	(1) Hairs	(2) Anthers	(3) Styles	(4) Ovaries.		
33.	Thorn of Bougainvillea	and tendril of Cucurbit	a are examples of	(AIPMT-2008)		
	(1) Vestigial organs		(2) Analogous organs			
	(3) Retrogressive evol	ution	(4) Homologous organ	ns.		
34.	Replum is present in t	he ovary of flower of		(AIPMT-2008)		
	(1) Sunflower	(2) Mustard	(3) Pea	(4) Lemon.		
35.	In unilocular ovary with	h a single ovule the plac	centation is	(AIPMT-2010)		
	(1) Basal	(2) Free Central	(3) Axile	(4) Marginal		
36.	Which one of the follow	wing statement is correc	ct?	(AIPMT Pre-2011)		
	(1) In Tomato, fruit is a capsule		` '	(2) Seeds of Orchids have oil-rich endosperm		
	(3) Placentation in Prin	mrose is basal	(4) Flower of Tulip is a	n modified shoot		
37.	Flower are Zygomorph			(AIPMT Pre-2011)		
	(1) Mustard	(2) Gulmohur	(3) Tomato	(4) Datura		

38.	The ovary is half info	erior in flowers of			(Pre AIPMT-2011)
	(1) Peach	(2) Cucumber	(3) Cotton	(4) Guava	
39.#	Which one of the fol	lowing diagrams represe	ents the placentation in	Dianthus? (A	AIPMT mains-2011)
	(1)	(2)	(3)	(4)	
40.	Epigynous flowers a	are present in		(A	IPMT RPMT - 2011)
	(1) Mustard	(2) Brinjal	(3) China rose	(4) Cucum	ber
41.	In <i>Dianthus</i> , placent	ation is		(Al	PMT, RPMT - 2011)
	(1) Basal	(2) Free central	(3) Axile	(4) Margin	al
42.	Ovary is half-inferior	r in the flower of		(/	AIPMT RPMT-2011)
	(1) Apple	(2) Guava	(3) Peach	(4) Garlic	
43.	Placentation in toma	ato and lemon is			(AIPMT Pre2012)
	(1) Parietal	(2) Free central	(3) Marginal	(4) Axile	
44.	The gynoecium con	sists of many free pistils	in flowers of		(AIPMT Pre2012)
	(1) <i>Al</i> oe	(2) Tomato	(3) Papaver	(4) Michel	ia
45.	Vexillary aestivation	is characteristic of the f	amily		(AIPMT Pre2012)
	(1) Fabaceae	(2) Asteraceae	(3) Solanaceae	(4) Brassio	caceae
46.	 (1) Pea : C₃ pathway (2) Tomato : Twisted (3) Onion : Bulb, Iml 	lowing organisms is corpy, Endospermic seed, Vold aestivation, Axile place bricate aestivation, Axile vay, Closed vascular bur	entation, Berry placentation		tics? AIPMT Mains-2012)
47.	bean, chilli, plum, P hypogynous flower	Petunia, tomato, rose, W ?	okin, china rose, lupin, <i>lithania</i> , potato, onion, <i>A</i>	loe and tulip ho	
	(1) Ten	(2) Fifteen	(3) Eighteen	(4) Six	
48.	(2) Zygomorphic, hy (3) Zygomorphic, ep	owers are: epigynous with valvate acrossynous with imbricate origynous with twisted aes rypogynous with twisted	e aestivation stivation		(NEET-2013)
49.	When the margins of is termed as	of sepals or petals overla	ap one another without a	ıny particular dir	ection, the condition (AIPMT-2014)
	(1) Vexillary	(2) Imbricate	(3) Twisted	(4) Valvate	e
50.	Keel is the characte (1) <i>Indigofera</i>	ristic feature of flower of (2) <i>Aloe</i>	: (3) Tomato	(4) Tulip	(AIPMT-2015)

51.	Perigynous flowers are		(0) 5	(I) G	(AIPMT-2015)
	(1) Cucumber	(2) China rose	(3) Rose	(4) Guava	
52.	superior ovary?		guava, cucumber, onion a	(many plants have Re-AIPMT-2015)
	(1) Six	(2) Three	(3) Four	(4) Five	
53.	Flowers are unisexual (1) Cucumber	in: (2) China rose	(3) Onion	(4) Pea	Re-AIPMT-2015)
54.	Axile placentation is p	resent in		(Re-AIPMT-2015)
	(1) Lemon	(2) Pea	(3) Argemone	(4) Dianthus	,
55.	The standard petal of (1) Corona	a papilionaceous corolla (2) Carina	is also called (3) Pappus	(4) Vexillum	(NEET-I-2016)
EC	,	. ,	(0) 1 appus	(+) VCXIIIdili	(NIEET II 2046)
56.	The term 'polyadelpho' (1) calyx	(2) gynoecium	(3) androecium	(4) corolla	(NEET-II-2016)
57.	Radial symmetry is for	und in the flowers of			(NEET-II-2016)
	(1) Cassia	(2) Brassica	(3) Trifolium	(4) Pisum	
58.	Free-central placentat	ion is found in			(NEET-II-2016)
	(1) Citrus	(2) Dianthus	(3) Argemone	(4) Brassica	
59.	Placentntion, in which	ovules develop on the in	nner wall of the ovary or in		rt, is: E T-1-2019)
	(1) Free central	(2) Basal	(3) Axile	(4) Parietal	
		FI	RUIT		
60.	Geocarpic fruit is				(AIPMT-2000)
	(1) Mango	(2) Orange	(3) Water Melon	(4) Peanut.	
61.	Which is correct match	h for edible part			(AIPMT-2001)
	(1) Tomato- Thalamus	S	(2) Maize-Cotyledons		
	(3) Guava-Mesocarp		(4) Date-Mesocarp.		
62.	Edible part of Banana	is			(AIPMT-2001)
	(1) Epicarp		(2) Epicarp and mesocarp		
	(3) Mesocarp and less	s developed endocarp	(4) Endocarp and less	developed·me	socarp.
63.æ	•	es observed in lemon fru	•		(AIPMT-2003)
	(1) Exocarp	(2) Mesocarp	(3) Endocarp	(4) Mesocarp	and endocarp.
64.	Pineapple (Ananas) fr (1) Cluster of flowers I (2) Multilocular monoc (3) Unilocular polycar (4) Multipistillate sync	borne compactly on a co carpellary flower pellary flower	mmon axis		(AIPMT-2006)
65 ≫	Ranana is				(AIPMT-2006)

78.	In cereal grain, single c (1) Coleoptile	otyledon is represented (by (3) Scutellum	(4) Prophyll	(AIPMT-2006)
77.æ	Why vivipary is an undesirable character for annual crop plants? (1) It reduces vigour of the plant. (2) It adversely affects the fertility of the plant (3) The seeds exhibit long dormancy (4) The seeds cannot be stored under normal conditions for next season.				
76.3	Aleurone layer of Maize (1) Proteins	grain is specially rich in (2) Starch	(3) Lipids	(4) Auxins.	(AIPMT-2003)
		SE	EDS		
75.	The morphological natu (1) Perisperm	re of the edible part of c (2) Cotyledon	oconut is (3) Endosperm	(4) Pericarp	(NEET-2017)
74.	Coconut fruit is a (1) Drupe	(2) Berry	(3) Nut	(4) Capsule	(NEET-2017)
73.	Which one of the follow (1) Apple	nig fruits is parthenocarp (2) Jackfruit	oic? (3) Banana	(4) Brinjal	e-AIPMT-2015)
72.	An aggregate fruit is one which devloped from (1) Multicarpellary syncarpous gynoecium (3) Complete inflorescence		(AIPMT-2014) (2) Multicarpellary apocarpous gynoecium (4) Multicarpellary superior ovary		
71.	Placenta and pericarp a (1) Apple	are both edible portions in (2) Banana	n (3) Tomato	(4) Potato	(AIPMT-2014)
70.a	The coconut water and (1) Endosperm	the edible part of cocond (2) Endocarp	ut are equivalent to (3) Mesocarp	(A) Embryo	IPMT Pre2012)
69.	• •	list given below have co fig, pineapple, apple, ton (2) Five	omposite fruits that develonato, mulberry (3) Two	•	orescence? IPMT Pre2012)
68. ≿⊾	A drupe develops in (1) Mango	(2) Wheat	(3) Pea	(4) Tomato	AIPMT Pre-2011)
07.	(1) Berry	(2) Cremocarp	(3) Cypsela	(4) Caryopsis	(AIPMT-2008)
67.	(1) Guava	(2) Pomegranate	(3) Cucumber n bicarpellary syncarpous	(4) Orange.	ie
66.	The fruit is chambered,	developed from inferior	ovary and has seeds with	n succulent tes	ta in (AIPMT-2008)
	(1) Cremocarp (3) Drupe		(2) Parthenocarpic berry	у	

79.	(1) The seed in grasses(2) Mango is a parthene	ocarpic fruit eurone layer is present in		(AIPMT-2014)
80.≿	Non- albuminous seed (1) Maize	is produced in: (2) Castor	(3) Wheat	(AIPMT-2014) (4) Pea
81.	The wheat grain has ar (1) Coleorrhiza	n embryo with one, large, (2) Scutellum	shield-shaped cotyledor (3) Coleoptile	n known as: (Re-AIPMT-2015) (4) Epiblast
		FAMILIES OF FLO	WERING PLANTS	
82.			(2) Calotropis procera a	(AIPMT-2003) and <i>Phyllanthus niruri</i> atum and <i>Acacia nilotica</i>
83.	Three crops that contribution (1) Wheat, Rice and Ma (3) Wheat, Maize and S		food production are (2) Wheat, Rice and Ba (4) Rice, Maize and <i>So</i>	•
84.	What type of placentati (1) Marginal	on is seen in Sweet Pear (2) Basal	? (3) Axile	(AIPMT-2006) (4) Free central
85.	Pentamerous actinomo berry, belong to family (1) Liliaceae	orphic flowers, bicarpella (2) Asteraceae	ry ovary with oblique se	eptum and a fruit of capsule or (AIPMT-2006) (4) Solanaceae
86.	The floral formula [⊕] ♀ (1) Tobacco	$K_{(s)} \widehat{C_{(s)}} A_s \underline{G}_{(2)}$ is that of (2) Tulip	(3) Soybean	(AIPMT-2009) (4) Sunnhemp
87.	The floral formula [@]	S ₂₊₂ C ₄ A ₂₊₄ G _® represents	(2) Hibiscus rosa-sinen (4) Brassica campestris	
88.	Keel is characteristic of (1) Cassia	f the flowers of (2) <i>Calotropi</i> s	(3) Bean	(AIPMT Pre-2010) (4) Gulmohur
89.	 (1) Cassia (2) Calotropis (3) Bean (4) Gulmohur Consider the following four statement A, B, C, and D select the right option for two correct statements (AIPMT Main-2) (A) In vexillary aestivation the large posterior petal is called standard, two lateral ones are wings two small anterior petals are termed keel. (B) The floral formula for Liliaceae is ⊕ ♀ P₃→₃ A₃→₃ G₃ (C) In pea flower the stamens are monoadelphous (D) The floral formula for Solanaceae is ⊕ ♀ K₃→ C₃→ A₄→ G₂ The correct statements are (1) (C) and (D) (2) (A) and (C) (3) (A) and (B) (4) (B) and (C) 			
90.	Vexillary aestivation is (1) Fabaceae	characteristic of the fami (2) Asteraceae	ly (3) Solanaceae	(AIPMT-2012) (4) Brassicaceae

91.	In China rose the flowers are: (1) Actinomorphic, epigynous with valvate aestivation (2) Zygomorphic, hypogynous with imbricate aestivation (3) Zygomorphic, epigynous with twisted aestivation (4) Actinomorphic, hypogynous with twisted aestivation				(NEET-2013)
92.	-	, Plum, Petunia, Tomato,	npkin, China rose, Lupir Rose, Withania, Potato,		•
	(1) Ten	(2) Fifteen	(3) Eighteen	(4) Six	
93.	Keel is the characte (1) <i>Indigofera</i>	eristic feature of flower of: (2) <i>Alo</i> e	(3) Tomato	(4) Tulip	(AIPMT-2015)
94.	$\bigoplus \oint K_{\scriptscriptstyle (S)} \stackrel{\longleftarrow}{C_{\scriptscriptstyle (S)}} A_{\scriptscriptstyle S} \stackrel{\underline{G}_{\scriptscriptstyle (2)}}{=}$ is th	e floral formula of:			(AIPMT-2015)
	(1) Sesbania	(2) Petunia	(3) Brassica	(4) Allium	
95.	Tricarpellary, synca	rpous gynoecium is found	d in flowers of:		(NEET-I-2016)
	(1) Poaceae	(2) Liliaceae	(3) Solanaceae	(4) Fabaceae	
96.	• •	among <i>Indigofera, Sesbal</i> mens with different length	nia, Salvia, Allium, Aloe, ns in their flowers?	mustard, groundr	nut, radish, gram (NEET-II-2016)
	(1) Six	(2) Three	(3) Four	(4) Five	
	PART	- II : AIIMS QUES	STION (PREVIOUS	S YEARS)	
1.	Name the family ha	ving (9) + 1 arrangement	of stamens		(AIIMS-2001)
	(1) Solanaceae	(2) Asteraceae	(3) Liliaceae	(4) Fabaceae	
2.	Potato and sweet p	otato			(AIIMS-2004)
	•	s which are homologous	organs		(/
	. ,	s which are analogous or	-		
	(3) have been intro	duced in India from the sa	ame place		
	(4) are two species	of the same genus			
3.	The family containing	ng mustard and its main o	haracters are		(AIIMS-2005)
	(1) Brassicaceae -	Tetramerous flowers, six	stamens, bicarpellary gyn	oecium, siliqua ty	pe fruit
	(2) Brassicaceae - I	Pentamerous flowers, ma	ny stamens, pentacarpell	ary gynoecium, c	apsule type fruit
			stamens, bicarpellary gyn		
	(4) Poaceae - Trime	erous flowers, three stame	ens; monocarpellary gync	ecium, caryopsis	type of fruit
4.	Cocoa is the plant f	rom which chocolate is m	ade. Which part is used t	extract it?	(AIIMS-2007)
	Cocca io trio piarit i	Tom Willow Choodiato to th	lado. Willon part lo acca t	o oxtraot it.	(AIIIVIS-2007)
	(1) flower	(2) fruit	(3) seeds	(4) bark	(AIIM3-2007)
5.	•	(2) fruit	·		(AIIMS-2007)

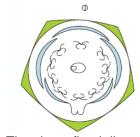
(1) Apricot, mango, Guava

7. U (1 8. W (1 (2 (3	lpon f I) test Vhich I) um 2) rac	ta of the following is bel is a racemose		(3) Ceratophyllumcarpel?(3) pericarp	(4) Vallisneria(4) perisperm	(AIIMS-2009)
(1 8. W (1 (2	l) test /hich l) um 2) rac	ta of the following is bel is a racemose	(2) tegmen	•	(4) perisperm	(AIIMS-2009)
8. W (1	/hich 1) um 2) rac	of the following is	s true?	(3) pericarp	(4) perisperm	
(1 (2 (3	1) um 2) rac	bel is a racemose				
(2	2) rac					(AIIMS-2009)
(3		eme is a racemo	e inflorescence where al	l stalked flower aggregate	e on the flat rece	ptacle
	3) spa	cinc is a raccino	se inflorescence having	main axis shortened & flo	wer born acrope	etally
(4		ndix is a racemos	e inflorescence having p	endulous spike with mair	axis much flatte	ened
	1) spil	ke is a racemose	inflorescence having se	essile flowers		
9. A	fruit	developed from a	a condensed inflorescen	ce is		(AIIMS-2010)
(1	I) Sim	nple fruit	(2) Aggregate fruit	(3) Composite fruit	(4) Etaerio	
10. P	appu	s helps in dispers	sal of pollen in			(AIIMS-2011)
		eraceae	(2) Brassicaceae	(3) Malvaceae	(4) Solanaceae	•
11. F	eathe	ery stigma belong	is to			(AIIMS-2011)
	1) Wh		(2) Pea	(3) Datura	(4) Caesalpinia	•
12. P	appu	s helps in dispers	sal of pollen in		.,	(AIIMS-2011)
		eraceae	(2) Brassicaceae	(3) Malvaceae	(4) Solanaceae	•
13. F	eathe	ery stigma belong	is to			(AIIMS-2011)
	l) Wh	_	(2) Pea	(3) Datura	(4) Caesalpinia	•
14. In	nflores	scence of Liliacea	ae is			(AIIMS-2011)
(1	I) Act	inomorphic	(2) Trimerous	(3) Pentamerous	(4) Imperfect	
15. T	he fa	mily in which mar	ny plants are C₄ type			(AIIMS-2012)
(1	I) Ma	Ivaceae	(2) Solanaceae	(3) Crucifereae	(4) Graminae	
16. T	etrad	ynamous condition	on is found in			(AIIMS-2016)
(1	1) Hib	iscus rosa-sinesi	is	(2) Ocimum sanctum		
(3	(3) Helianthus annuus			(4) Brassica compestris		
17. V	/hich	one of the follow	ing option is not correctly	y matched?		(AIIMS-2017)
	(1)	Cymose	Acacia			
	(2)	Hypanthodium	Banyan			
-	(3)	Cyanthium	Euphorbia			
7	(4)	Verticillaster	Calotropis			

(2) Apple, strawberry, coconut

(3) Coconut, apple, cashewnut

(4) Coconut, strawberry, mango



19._

The above floral diagram shows the floral formula

(AIIMS-I-2018)

(1)
$$\oplus Q^7 P_{3+3} A_{3+3} \underline{G}_{(3)}$$

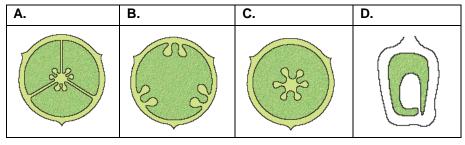
(2)
$$\oplus Q^{7}K_{(5)}C_{1+2+(2)}A_{(9)+1}\underline{G}_{1}$$

(3)
$$\oplus Q^{7} K_{2+2} C_{4} A_{2+4} \underline{G}_{(2)}$$

$$(4) \oplus \cancel{Q}^{\bullet} \mathbf{K}_{(5)} \widehat{\mathbf{C}_{(5)}} \mathbf{A}_{5} \underline{\mathbf{G}}_{(2)}$$

20._ Select the correct matching

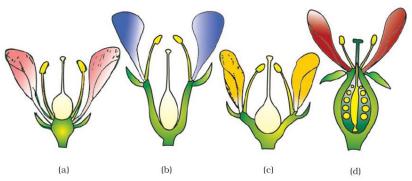
(AIIMS-II-2018)



Option:

- (1) A Tomato, B Argemone, C- Dianthus, D Sunflower
- (2) A Dianthus, B Argemone, C- Tomato, D Sunflower
- (3) A Tomato, B Sunflower, C- Dianthus, D Argemone
- (4) A Argemone, B Tomato, C- Dianthus, D Sunflower
- **21.** Diagram of hypogynous, perigynous, Epigynous are given respectively

(AIIMS-IV-2018)



Find out the correct option for the above diagrams a, b, c, d that has correct examples

- (1) a-Mustard, b- Rose, c- Plum, d- Guava
- (2) a-Cucumber, b- Plum, c- Rose, d- Brinjal
- (3) a-China rose, b- Guava, c- Rose, d-Mustard
- (4) a-Mustard, b- Rose, c- Plum, d- Brinjal

Answers

EXERCISE - 1

SECT	ION - A												
1.	(2)	2.	(4)	3.	(4)	4.	(1)	5.	(4)	6.	(3)		
SECT	ION - B		` ,		. ,		, ,		` ,		` ,		
1.	(1)	2.	(3)	3.	(1)	4.	(3)	5.	(1)	6.	(1)	7.	(2)
	ION - C		(0)	•	(-)		(0)	-	(· /	· ·	(·)		(-)
		2.	(2)	2	(2)	4	(2)	E	(2)	6	(2)	7	(4)
1. 8.	(3) (4)	۷.	(3)	3.	(2)	4.	(3)	5.	(2)	6.	(3)	7.	(4)
SECT	ION - D												
1.	(1)	2.	(4)	3.	(4)	4.	(2)	5.	(2)	6.	(4)	7.	(1)
8.	(4)	Z.	(4)	J.	(4)	٦.	(2)	J.	(2)	0.	(4)	٠.	(1)
SECT	ION - E												
1.	(4)	2.	(4)	3.	(2)	4.	(2)	5.	(1)	6.	(1)	7.	(2)
8.	(3)	9.	(1)	10.	(1)	11.	(4)	12.	(1)	13.	(1)	14.	(3)
15.	(1)												
SECTION - F													
1.	(1)	2.	(1)	3.	(2)	4.	(4)	5.	(2)	6.	(4)	7.	(1)
8.	(4)	9.	(3)	10.	(4)	11.	(1)	12.	(2)				
SECTION - G													
1.	(3)	2.	(1)	3.	(2)	4.	(3)	5.	(1)	6.	(3)	7.	(3)
SECT	ION - H												
1.	(3)	2.	(4)	3.	(2)	4.	(2)	5.	(1)	6.	(2)	7.	(2)
8.	(1)	9.	(1)	10.	(3)	11.	(2)	12.	(4)	13.	(4)	14.	(1)
15. 22.	(3) (1)	16. 23.	(2) (4)	17. 24.	(3) (1)	18. 25.	(1) (1)	19. 26.	(3) (4)	20. 27.	(1) (3)	21. 28.	(4) (4)
22. 29.	(2)	30.	(1)	31.	(2)	32.	(2)	20.	(4)	21.	(3)	20.	(4)
								IIECTI <i>(</i>	ONC				
								UESTIC					
1.	(1)	2.	(3)	3.	(3)	4.	(1)	5.	(4)	6.	(3)	7.	(2)
8. 15.	(1) (3)	9. 16.	(2) (4)	10. 17.	(4) (2)	11. 18.	(4) (4)	12. 19.	(1) (2)	13. 20.	(4) (4)	14. 21.	(1) (4)
22.	(1)	23.	(1)	24.	(4)	25 .	(4)	26.	(2)	27.	(3)	28.	(4)
29.	(3)	30.	(2)	31.	(4)	32.	(4)	33.	(3)	34.	(1)	35.	(2)
36.	(3)	37.	(1)	38.	(3)	39.	(2)	40.	(1)	41.	(3)	42.	(2)
43.	(3)	44.	(1)	45.	(2)	46.	(3)	47.	(4)	48.	(4)	49.	(4)
50.	(4)	51.	(1)	52.	(4)	53.	(2)	54.	(1)	55.	(2)	56.	(2)
57.	(4)	58. 65	(2)	59. 66.	(2)	60. 67	(3)	61.	(3)	62. 69.	(4)	63. 70	(1)
64. 71.	(4) (4)	65. 72.	(2) (2)	оо. 73.	(2) (4)	67. 74.	(3) (3)	68. 75.	(4) (3)	69. 76.	(3) (1)	70. 77.	(2) (2)
78.	(3)	79.	(3)	80.	(3)	81.	(1)	82.	(1)	83.	(4)	84.	(4)
85.	(2)	86.	(3)	87.	(3)	88.	(1)	89.	(2)	90.	(2)	91.	(2)
92.	(2)	93.	(2)	94.	(4)	95.	(2)	96.	(1)	97.	(3)	98.	(4)
99.	(1)	100.	(3)	101.	(4)	102.	(4)	103.	(1)	104.	(1)	105.	(4)

BIO	LOGY	FOR	NEET						PL	ANT M	ORPI	HOLOG	3Y
106.	(4)	107.	(2)	108.	(4)	109.	(3)	110.	(2)	111.	(1)	112.	(1)
113.	(4)	114.	(2)	115.	(4)	116.	(3)	117.	(2)	118.	(1)	119.	(4)
120.	(2)	121.	(4)	122.	(2)	123.	(3)	124.	(4)	125.	(1)	126.	(2)
127.	(3)	128.	(4)	129.	(4)		(-)		()		()	_	()
						EXER	CISE -	. 2					
1.	(4)	2.	(3)	3.	(2)	4.	(4)	5.	(2)	6.	(3)	7.	(1)
8.	(4)	9.	(1)	10.	(4)	11.	(1)	12.	(3)	13.	(3)		
						EXER	CISE -	3					
						PA	RT- I						
1.	(1)	2.	(1)	3.	(4)	4.	(1)	5.	(1)	6.	(4)	7.	(2)
8.	(4)	9.	(1)	10.	(4)	11.	(4)	12.	(2)	13.	(4)	14.	(3)
15.	(4)	16.	(3)	17.	(4)	18.	(1)	19.	(4)	20.	(2)	21.	(3)
22.	(3)	23.	(3)	24.	(3)	25.	(4)	26.	(1)	27.	(1)	28.	(2)
29.	(4)	30.	(1)	31.	(3)	32.	(3)	33.	(4)	34.	(2)	35.	(1)
36.	(4)	37.	(2)	38.	(1)	39.	(2)	40.	(4)	41.	(2)	42.	(3)
43.	(4)	44.	(4)	45.	(1)	46.	(3)	47.	(2)	48.	(4)	49.	(2)
50.	(1)	51.	(3)	52.	(1)	53.	(1)	54.	(1)	55.	(4)	56.	(3)
57.	(2)	58.	(2)	59.	(4)	60.	(4)	61.	(4)	62.	(3)	63.	(3)
64.	(1)	65.	(2)	66.	(2)	67.	(3)	68.	(1)	69.	(4)	70.	(1)
71.	(3)	72.	(2)	73.	(3)	74.	(1)	75.	(3)	76.	(1)	77.	(4)
78.	(3)	79.	(3)	80.	(4)	81.	(2)	82.	(1)	83.	(1)	84.	(1)
85.	(4)	86.	(1)	87.	(4)	88.	(3)	89.	(3)	90.	(1)	91.	(4)
92.	(2)	93.	(1)	94.	(2)	95.	(2)	96.	(3)				
						PA	RT- II						
1.	(4)	2.	(2)	3.	(1)	4.	(3)	5.	(2)	6.	(3)	7.	(3)
8.	(4)	9.	(3)	10.	(1)	11.	(1)	12.	(1)	13.	(1)	14.	(2)
15.	(4)	16.	(4)	17.	(4)	18.	(1)	19.	(2)	20.	(1)	21.	(1)

Self Practice Paper (SPP) Opposite, simple leaves with reticulate venation are to

1.	Opposite, simple lea	aves with reticulate vena (2) China rose	ation are present in (3) <i>Calotropi</i> s	(4) Neem				
2.	(2)Have edible parts	s which are homolgous of which are analogous of uced in India from the s	organs					
3.	Radical leaves are f (1)Radish, Turnip ar (3) Sugarcane, Barr	nd carrots	` ,	(2) Brassica, Iberis and Allium (4) Cynodon, Maize and Wheat				
4.	Epigynous flowers a	are present in (2) Brinjal	(3) China rose	(4) Cucumber				
5.	Prickles of rose are (1) Modified leaves (3) Exogenous in or	igin		(2) Modified stipules(4) Endogenous in origin				
6.	Palmately compoun (1)Neem	d leaves are found in (2) <i>Acacia</i>	(3) Cassia	(4) Silk cotton				
7.	A pappus is modification (1) Bract	ation of (2) Corolla	(3) Stamen	(4) Calyx				
8.	Which of the following (1)Tendrils in cucum (3)Flattened green s		stem – (2) Thorns in <i>Bougainvillea</i> (4) Pitcher in <i>Nepenthes</i>					
9.	Colocasia On the basis of about (a) Gladiolus has continuous (b) Eichhornia shown (c) Chrysanthemum (d) Pea shows leafle	ve names given below to orm while cucumber has soffset while Jasmine in is sucker while <i>Amorph</i>	he following statements stem tendril s runner	morphophallus, grasses, strawberry, rm (4) 4				
10.	Alternate phyllotaxy (1) Alstonia		(3) Guava	(4) China rose				
11.	Ginger is homologo		. ,	• •				
	(1) Sweet potato	(2) Turnip	(3) Onion	(4) Mango ginger				
12	Inflorescence of Fig	ie						

(1) Grass

	(1) Hypanthodium	(2) Verticillaster	(3) Cyathium	(4) Cymose							
13.	Fruit is legume in family	•	· , ,								
13.	(1) Fabaceae	(2) Asteraccae	(3) Poaceae	(4) Solanaceae.							
14	Spines are found in										
	(1) Citrus	(2) Cacti	(3) Bougainvillea	(4) Duranta							
15.	Which of the following a (1) Corm, bulb, rhizome (3) bulb, rhizome, corm	Э	, zaminkand, onion respectively (2) rhizome, bulb, corm (4) rhizome, corm, bulb								
16.	 Which of the following represents the floral characters of liliaceae? (1) Six tepals, zygomorphic, six stamens, bilocular ovary, axile placentation. (2) Actinomorphic, polyphyllous, unilocular ovary, axile placentation. (3) Tricarpellary, actinomorphic, polyandrous, superior ovary, axile placentation. (4) Bisexual, zygomorphic, gamophyllous, inferior ovary, marginal placentation. 										
17.	Select the wrong pair (1) Offset – (2) Tuber – (3) Runner – (4) Stolon –	Water hyacinth Potato Grasses Turmeric									
18.	Stem tendrils are found (1) Pea	I in (2) Grapevine	(3) Glory lily	(4) Smilax							
19.	Which of the following	can be vegetatively prop	ogated by axillary buds								
	(1) Potato	(2) Mango	(3) Chinarose	(4) Mustard							
20.	Which of the following is wrongly matched?										
20.	(1) Prop roots(2) Pneumatophores(3) Stilt roots(4) Hygroscopic roots	 Banyan Rhizophora Maize Sweet potato 									
21.	Sucker is found in										
	(1) Turmeric	(2) Ginger	(3) Colchicum	(4) Chrysanthemum							
22.#	In the above diagram,	(i) represents.									
	(1) Stipular tendril	(2) Leaflet tendril	(3) Stem tendril	(4) Petiolar tendril							
23.	In some plants, roots		plant other than the radi	icle and are called adventitious							

(3) Banyan tree

(2) Monstera

(4) All of the above

24.	•	d regions modify their out photosynthesis. The	• • •	ndrical structures. They contain				
	(1) Opuntia	(2) Euphorbia	(3) Asparagus	(4) Australian Acacia				
25.	ii. <i>Amorphophallous</i> a	ode are homologous stru and Strawberry have corr tendril of <i>Cucurbita</i> show eshy stem for performing itulum inflorescence.	m. v convergent evolution.	(4) 1				
26.	Which type of inflores (1) Verticillaster	scence is found in <i>Eupho</i> (2) Hypanthodium	rbia? (3) Cyathium	(4) Corymb				
27.	,	. , , , ,	structure is used for capto (3) Leaf hook	•				
28.	Aggregate fruit develo (1) Multicarpellary syr (3) Monocarpellary ap	ncarpous ovary	(2) Multicarpellary apocarpous ovary(4) Whole inflorescence					
29.	Which of the following (1) Cladode	g is found in <i>Ruscus</i> ? (2) Phylloclade	(3) Phyllode	(4) Staminode				
30.	Epigeal germination of (1) Pea	occurs in (2) Gram	(3) Castor	(4) Maize				
31.	Which type of inflores (1) Spike	scence is found in Mulber (2) Umbel	rry? (3) Catkin	(4) Corymb				
32.	Which of the following	g is not a root (2) Sweet potato	(3) Radish	(4) Colchicum				
33.	Thorn are found in (1) <i>Citrus</i>	(2) Acacia	(3) Aloe vera	(4) Opuntia				
34.	Which inflorescence i (1) Hypanthodium	is found in <i>Ocimum</i> ? (2) Verticillaster	(3) Dichasial cyme	(4) Umbel				
35.	Venus fly trap has (1) Modified stem	(2) Modified leaves	(3) Modified roots	(4) Modified inflorescence				
36. 37.	(1) Basipetal manner(3) Acropetal manner		(2) Centripetal manner (4) centrifugal manner					
J1.	(1) Orchids	(2) Sweet potato	(3) Tinospora	(4) All of the above				

38.	Which of the following is a	modification for	mechanical support
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(1) Stilt roots

(2) Floating roots

(3) Fasciculated roots

(4) Pnumatophores

39. Which of the following pairs are correct except one

(1) Lianas

Woody climber

(2) Clinging roots

Convolvulus

(3) Tuberous root

Sweet potato

(4) Buttress roots

Bombax ceiba

40. In the sweet pea plant, which type of tendril is found?

(1) Stem tendril

(2) Petiolar tendril

(3) Stipular tendril

(4) Leaflet tendril

41. The edible part of garlic is

(1) Stem

(2) root

(3) buds

(4) fleshy leaves

42. Name the most advanced family of monocots

(1) Arecaceae

(2) Orchidaceae

(3) Poaceae

(4) None of the above

43. Which type of phyllotaxy is found in *Alstonia?*

(1) Opposite decussate

(2) Alternate

(3) Whorled

(4) Opposite superposed

44. Which of the following one is modification of aerial stem

(1) Rhizome

(2) Sucker

(3) Tuber

(4) Cladode

45. Which of the following type of inflorescence is found in onion

(1) Spadix

(2) Catkin

(3) Spike

(4) Cymose umbel

SPP Answers

1.	(3)	2.	(2)	3.	(1)	4.	(4)	5.	(3)	6.	(4)	7.	(4)
8.	(4)	9.	(3)	10.	(4)	11.	(3)	12.	(1)	13.	(1)	14	(2)
15.	(4)	16.	(3)	17.	(4)	18.	(2)	19.	(1)	20.	(4)	21.	(4)
22.	(3)	23.	(4)	24.	(2)	25.	(2)	26.	(3)	27.	(2)	28.	(2)
29.	(1)	30.	(3)	31.	(3)	32.	(4)	33.	(1)	34.	(2)	35.	(2)
36.	(3)	37.	(3)	38.	(1)	39.	(2)	40.	(4)	41.	(4)	42.	(2)
43.	(3)	44.	(4)	45.	(4)								