Botany

11P/219/30

Question Booklet No....15/2

(To be filled up by the candidate by blue/black ball-point pen)					
Roll No.					
Roll No. (Write the digits in words)					
Serial No. of OMR Answer Sheet					
Day and Date(Signature of Invigilator)					

## INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, check the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing. In case of faulty Question Booklet bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- **3.** A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided. Only the Answer Sheet will be evaluated.
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and also Roll No. and OMR Sheet No. on the Question Booklet.
- 7. Any change in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. Each question in this Booklet is followed by four alternative answers. For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by ball-point pen as mentioned in the guidelines given on the first page of the Answer Sheet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero mark).
- 11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
- 12. Deposit only the OMR Answer Sheet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

## No. of Questions/प्रश्नों की संख्या: 150

Time/समय: 2 Hours/घण्टे Full Marks/पूर्णांक: 450

Note/नोट: (1) Attempt as many questions as you can. Each question carries 3 marks. One mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question.

अधिकाधिक प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक प्रश्न 3 अंक का है। प्रत्येक गलत उत्तर के लिए एक अंक काटा जाएगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा।

(2) If more than one alternative answers seem to be approximate to the correct answer, choose the closest one.

यदि एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।

- 1. Linnaeus's system of classification is
  - (1) natural
- (2) phylogenetic
- (3) phenetic
- (4) artificial
- 2. Which of the following is a rooted hydrophyte with floating leaves?
  - (1) Hydrilla
- (2) Nymphaea
- (3) Utricularia
- (4) Vallisneria

- 3. Mangrove plants show
  - (1) Vivipary

(2) Hypogeal germination

(3) Seed dormancy

(4) Opuntia

4.	Rolling of leaves in	gra	sses is brought	abou	it by		
	(1) stomata	(2)	bulliform cells	(3)	epidermal cell	(4)	cortex
5.	Plants growing in	acidi	c soils are called	l			
	(1) psammophytes			(2)	chasmophytes		
	(3) oxalophytes			(4)	halophytes		
6.	An inflorescence ha	ving	flattened axis, se	ssile	flowers and who	rl of	involucral bract is
	(1) umbel	(2)	capitulum	(3)	corymb	(4)	raceme
7.	Emasculation mean	าธ					
	(1) artificial pollina	ation					
	(2) removal of anthers before dehiscence						
	(3) pollination between flowers of the plant						
	(4) removal of stig	ma l	pefore fertilization	n			
8.	A species occurring	g in	different geograp	hica	l areas is knowr	ı as	
	(1) sympatric	(2)	biological	(3)	allopatric	(4)	biospecies
9.	Cotton belongs to t	the f	amily				
	(1) Brassicaceae	(2)	Asteraceae	(3)	Solanaceae	(4)	Malyaceae
10.	Scattered, conjoint	and	closed type of v	ascu	ılar bundles are	four	nd in
	(1) monocot stem		<b>., ,</b>	(2)	dicot stem	20ui	
				. ,			
	(3) monocot root			(4)	dicot root		
(256)			2				

11.	Which one of the f	following is a root pa	arasite?	
	(1) Utricularia	(2) Drocera	(3) Cuscuta	(4) Orobanche
12.	The bacteria which	do not bear flagella	are known as	
	(1) Lophotrichous		(2) Atrichous	
	(3) Peritrichous		(4) Monotrichous	
13.	The branch of Bota	any dealing with stu	dy of fungi is called	i as
	(1) Virology	(2) Phycology	(3) Mycology	(4) Bacteriology
14.	If the centromere is	slightly away from th	ne middle of the chro	mosome, it is known as
	(1) Telocentric		(2) Acrocentric	
	(3) Submetacentric	c .	(4) Metacentric	
15.	The biotic compone	ent of ecosystem cor	mprises	
	(1) consumers and	d decomposers		
	(2) producers and	consumers		
	(3) producers only	•		
	(4) producers, con	sumers and decomp	oser	
16.	Isotype is duplicate	e of		
	(1) paratype	(2) lectotype	(3) holotype	(4) syntype
17.	Which of the follow	ving organelles does	not have DNA?	
	(1) Peroxisome	(2) Chloroplast	(3) Mitochondria	(4) Nucleus
(256)		3		(P.T.O.)

18.	The	source of morp	hine	e is				
	(1).	(1) Rauwolfia serpentina			(2)	Cannabis sativa	Į	
	(3)	Papaver somnife	erum	ı	(4)	Digitalis purpur	га	
19.	Som	e flowers open	duri	ing the day and	clos	e at night, this :	is kı	nown as
		Phototaxy		Photonasty		-		Photoperiodism
20.	Anae	erobic respiratio	n ta	akes place in				
		ribosome		nucleus	(3)	cytoplasm	(4)	vacuole
21.	Alter	native name of	farr	nily Labiatae is				
		Poaceae		Lamiaceae	(3)	Cyperaceae	(4)	Apiaceae
22.	Antic	codon is associa	hate	zzrith				
22.	THILL	COUDIT IS ASSUCE	arcu	MITH				
	(1) 1	tRNA	(2)	mRNA	(3)	rRNA	(4)	DNA
23.	The	diagrammatic r	epre	sentation of a c	hron	nosome is knowr	ı as	
	(1) 1	holotype	(2)	syntype	(3)	paratype	(4)	idiotype
24.	A rec	cently discovere	d aı	nticancer drug i	s obt	tained from		
	(1)	Tectona	(2)	Citrus	(3)	Taxus	(4)	Tamarix
25.	Tylos	ses are found ir	n					
	(1) p	periderm			(2)	sap wood		
	(3) s	secondary corte	x		(4)	heart wood		
(256)				4				

26.	The membrane encl	losing a vacuole in a	a cel	l is known as			
	(1) Middle lamella	(2) Ectoplast	(3)	Tonoplast	(4)	Plasmalemr	na
27.	Plants which flower	only once in their	life a	are termed as			
	(1) Syncarpic	(2) Apocarpic	(3)	Monocarpic	(4)	Polycarpic	
28.	Seed develops from						
	(1) embryo	(2) embryo sac	(3)	ovary	(4)	ovule	
29.	The natural system	of classification of	plan <sup>.</sup>	ts was proposed	by		
	(1) Bentham and H	łooker	(2)	Hutchinson			
	(3) Engler and Prai	ntl	(4)	Linnaeus			
30.	Seed coat develops	from					
	(1) ovary wall	(2) ovule wall	(3)	fruit wall	(4)	petals	
31.	Stamens in Euphori	bia male flower is					
	(1) five	(2) indifinite	(3)	ten	(4)	one	
32.	In Raunkiaer's life	form, the tree is					
	(1) Therophytes	(2) Phanerophytes	(3)	Cryptophytes	(4)	Geophytes	
33.	Plants with latex ar	nd unisexual flowers	s are	found in			
	(1) Euphorbiaceae		(2)	Primulaceae			
	(3) Caryophyllaceae	<b>:</b>	(4)	Ranunculaceae			
(256)		5					(P.T.O.)

## 11P/219/30

34.	Presence of gynobasic style is the characteristic feature of						
	(1) Lamiaceae	(2) Asteraceae	(3)	Apiaceae	(4) Arecaceae		
35.	Elaterophores are	found in the capsu	le of				
	(1) Porella	(2) Pellia	(3)	Sphagnum	(4) Pogonatum		
36.	In Malvaceae, the	aestivation of coroll	la is				
	(1) descending im	bricate	(2)	valvate			
	(3) twisted		(4)	ascending imbr	icate		
37.	Binomial nomencle	ature was first prop	osed b	ру			
	(1) Gaertner	(2) Linnaeus	(3)	Roxburgh	(4) Brandis		
38.	The floral formula	of Argemone mexico	ana				
	$(1) \oplus \vec{Q}^{T} \ K_{(5)} \ \widehat{C_{(5)}} \ \mathbf{A}$	<sub>5</sub> G(2)	(2)	$\oplus \not \circ^{\pi} K_3 C_{3+3} A_{\alpha}$	$G(\underline{4-6})$		
	(3) % \$\varphi\$ K_5 \$\widetilde{C}_{(2/3)}\$.	A <sub>2+2</sub> G( <u>2)</u>	(4)	⊕ ⊈ K <sub>4</sub> C <sub>4</sub> A <sub>2+4</sub>	G( <u>2</u> )		
3 <del>9</del> .	Which of the follow	wing pairs is correc	tly ma	tched?			
	(1) Ageratum-Cyat	hium	(2)	Euphorbia-Verti	cellaster		
	(3) Musa-spadix		(4)	Salvia-spikelet			
40.	The periderm is m	ade up of					
	(1) phellem		(2)	periblem, phelle	ogen, phelloderm		
	(3) outer and inne	er cortex	(4)	phellem, phello	gen, phelloderm		
(256)		ı	6				

The orchid plants growing on the tre	es are			
(1) saprophytes (2) epiphytes	(3) parasites	(4) semi-parasite		
Hydrophytes are characterised by re-	duction in			
(1) xylem	(2) phloem			
(3) both xylem and phloem	(4) vascular bun	edle		
Pineapple is an example of				
(1) an etaerio of berries	(2) a sorosis			
(3) an aggretate of drupes	(4) a simple fles	hy fruit		
The science dealing with the relatio societies is called	n of plants with diffe	erent tribal and aboriginal		
(1) embryology (2) Ecology	(3) ethnobotany	(4) economic botany		
Which of the following sclereids is re	od-shaped?			
(1) Asterosclereids	(2) Osteosclereid	S		
(3) Macrosclereids	(4) Brachysclere	Brachysclereids		
If in a vascular bundle phloem surre	ounding the xylem, it	is termed as		
(1) amphivasal (2) radial	(3) conjoint	(4) amphicribal		
The fruit developing from tricarpellar	y, syncarpous, inferi	or ovary is called as		
(1) Syconus (2) Siliqua	(3) Cypsella	(4) Pepo		
Plants with latex, caducous calyx and	numerous stamens a	re characteristics of family		
(1) Papaveraceae (2) Asteraceae	(3) Moraceae	(4) Malvaceae		
	7	(P.T.O.)		
	(1) saprophytes (2) epiphytes  Hydrophytes are characterised by rec (1) xylem (3) both xylem and phloem  Pineapple is an example of (1) an etaerio of berries (3) an aggretate of drupes  The science dealing with the relation societies is called (1) embryology (2) Ecology  Which of the following sclereids is re (1) Asterosclereids (3) Macrosclereids (3) Macrosclereids If in a vascular bundle phloem surre (1) amphivasal (2) radial  The fruit developing from tricarpellar (1) Syconus (2) Siliqua  Plants with latex, caducous calyx and	Hydrophytes are characterised by reduction in  (1) xylem (2) phloem  (3) both xylem and phloem (4) vascular burn  Pineapple is an example of  (1) an etaerio of berries (2) a sorosis  (3) an aggretate of drupes (4) a simple flest  The science dealing with the relation of plants with diffusocieties is called  (1) embryology (2) Ecology (3) ethnobotany  Which of the following sclereids is rod-shaped?  (1) Asterosclereids (2) Osteosclereid  (3) Macrosclereids (4) Brachysclere  If in a vascular bundle phloem surrounding the xylem, in  (1) amphivasal (2) radial (3) conjoint  The fruit developing from tricarpellary, syncarpous, inferication  (1) Syconus (2) Siliqua (3) Cypsella  Plants with latex, caducous calyx and numerous stamens and  (1) Papaveraceae (2) Asteraceae (3) Moraceae		

49.	Gynostegium is found in the flower of	of
	(1) Nerium indicum	(2) Calotropis gigantea
	(3) Ageratum conyzoides	(4) Polygonum glabrum
<b>5</b> 0	Obdish stanson as a sudition of stanson	one in characteristic facture of family
50.	Obdiplostemonous condition of stamer	
	(1) Ranunculaceae (2) Malvaceae	(3) Papaveraceae (4) Caryophyllacea
51.	The term ecosystem was coined by	
	(1) Reiter	(2) Odum
	(3) Tansley	(4) Weaver and Clements
<b>52.</b>	A lichen having erect, branched and t	brush like small thallus is called as
	(1) foliose lichens	(2) fructicose lichens
	(3) thallose lichens	(4) crustaceous lichens
53.	Fucoxanthin pigment is found in	
	(1) Chlorophyceae	(2) Cyanophyceae
	(3) Rhodophyceae	(4) Phaeophyceae
54.	The lichens growing on bark are know	own as
	(1) Saxicolous (2) Corticolous	(3) Terricolous (4) Coprophilous
55.	Wings of Pinus seeds develop from	
	(1) seed coat	(2) cone axis
	(3) ovuliferous scale	(4) bract
(256)	8	8

56.	Syngenesious and epipetalous stamens	s are found in	
Ψ.	(1) Liliaceae (2) Malvaceae		
57.	Family Cucurbitaceae is characterised	by the presence of	
	(1) tricarpellary, syncarpous and supe	erior ovary	
	(2) bicarpellary, syncarpous and supe	rior ovary	
	(3) tricarpellary, syncarpous and infer	rior ovary	
	(4) bicarpellary, syncarpous and infer	ior ovary	
58.	Reserpine, a drug, is extracted from d	lried roots of	
	(1) Digitalis purpurea	(2) Rauwolfia serpentina	
	(3) Papaver somniferum	(4) Atropa belladona	
59.	Which one of the following is called the	ne brain of the cell?	
	(1) Ribosome (2) Golgi bodies	(3) Nucleus (4) Mitochondria	
60.	Process by which DNA gives rise to R	NA is called	
	(1) transduction	(2) polymerization	
	(3) translation	(4) transcription	
61.	Which of the following is a heterospor	ous fern?	
	(1) Lycopodium (2) Equisetum	(3) Marsilea (4) Adiantum	
62.	Isomorphic alternation of generation is	s found in	
	(1) Ectocarpus	(2) Oedogonium	
	(3) Batrachospermum	(4) Sargassum	
(256)	ç	9 (P.2	T.O.)

63.	In I	Ficus, the inflore	scer	nce is known as	3			
	(1)	Capitulum	(2)	Cyathium	(3)	Umbel	(4)	Hypanthodium
64.	The	fibres of cotton	are	the outgrowth	of			
	(1)	ovule wall	(2)	ovary wall	(3)	hilum	(4)	seed epidermis
65.	Phy	tophthora infesto	ıns (	causes				
	(1)	late blight of po	otato	•	(2)	wart disease of	pot	ato
	(3)	early blight disc	ease	of potato	(4)	powdery seed o	of po	tato
66.	In v	which of the foll	owin	g plants the oi	l is s	tored in endosp	erm?	•
	(1)	Brassica campe	stris		(2)	Ricinus commu	nis	
	(3)	Glycine max			(4)	Arachis hypoge	a	
67.	The	constriction on	the	chromosome is	kno	wn as		
	(1)	centromere	(2)	chromonema	(3)	centrosome	(4)	centriole
68.	Plas	smid is						
	(1)	a plastic			(2)	part of ribosom	ie	
	(3)	part of RNA			(4)	extra nuclear I	ONA	
69.	Whi	ich of the follow	ing i	is called powerh	ouse	es of the cell?		
	(1)	Mitochondria			(2)	Chloroplast		
	(3)	Nucleus			(4)	Golgi bodies		
(DEC)								
(256)				10	,			

(256)

70.	Red rot disease of sugarcane is caused	i by	
	(1) Albugo candida	(2)	Cercospora personata
	(3) Erysiphe graminis	(4)	Colletotrichum falcatum
71.	Lysosomes are called suicidal bag beca	ause	they have
	(1) parasitic cavity	(2)	food vacuole
	(3) hydrolytic enzymes	(4)	catabolic enzymes
72.	Nucleoli are rich in		
	(1) RNA	(2)	chromosomes
	(3) DNA, RNA and proteins	(4)	chromatin
<b>7</b> 3.	A timber-yielding plant, Shorea robusto	a belo	ongs to
	(1) Verbenaceae	(2)	Fabaceae
	(3) Rubiaceae	(4)	Dipterocarpaceae
74.	Vanilla, a flavouring material is extracte family	ed fro	m the fruit of Vanilla planifolia belongs to
	(1) Liliaceae (2) Poaceae	(3)	Orchidaceae (4) Zingiberaceae
75.	'Horn wort' is a common name of		
	(1) Riccia	(2)	Pellia
	(3) Porella	(4)	Anthoceros
256)	1	1	(P.T.O.)

(256)

76.	The endosperm in the angiosperms devel	lops from
•	(1) chalazal polar nucleus	(2) micropylar polar nucleus
	(3) secondary nucleus	(4) zygote
77.	Wood is the common name of	
		(2) secondary xylem
		(4) vascular bundles
78.	Which of the following is a saprophytic a	angiosperm?
	(1) Orobanche (2) Cuscuta	(3) Dendrophthoe (4) Monotropa
79.	Auxins are produced in	
	(1) root	(2) stem
	(3) meristematic region of shoot	(4) meristematic region of root
80.	Which of the following is a insectivorous	plant?
	(1) Nelumbo (2) Nicotiana	(3) Nyctanthes (4) Nepenthes
81.	The aquatic plant commonly used as bio	ofertilizer in the water-logged rice field is
	(1) Azolla (2) Trapa	(3) Lemna (4) Wolfia
82.	The conversion of atmospheric nitrogerorganisms is called	n into nitrogenous compounds by living
	(1) ammonification	(2) denitrification
	(3) biological nitrogen fixation	(4) nitrification
(256)	12	

83.	The root pressure is measured by							
	(1) osmometer	(2)	auxanometer					
	(3) potometer	(4)	manometer					
84.	Bladderwort is a common name of							
	(1) Nepenthes (2) Drocera	(3)	Dionea	(4)	Utricularia			
85.	Movement of leaves of Mimosa pudica is	s du	e to					
	(1) thermonasty (2) photonasty	(3)	seismonasty	(4)	nyetinasty			
86.	Alternative name for Krebs' cycle is							
	(1) citric acid cycle	(2)	EMP pathway					
	(3) glyoxylate	(4)	glycolate cycle					
87.	Which is the best to remove seed or bu	ıd d	ormancy?					
	(1) Gibberellin	(2)	Auxin					
	(3) Cytokinin	(4)	Abscisic acid					
88.	Chlorisis in plants occur due to							
	(1) low light intensity							
	(2) high light intensity							
	(3) absorption of yellowish pigments fro	om t	he soil					
	(4) deficiency of Mg and Fe in the soil							
	· · · · · · · · · · · · · · · · · · ·							

(256)

89.	. Which of the following is widely grown for bast fibre?						
	(1) Cotton	(2) Coir	(3)	Jute	(4)	Hemp	
90.	The normal or poly	ygonum type of emb	ryo s	ac is			
	(1) monosporic 4-	nucleate	(2)	bisporic 8-nuc	leate		
	(3) tetrasporic 16-	nucleate	(4)	monosporic 8-	nucle	ate	
91.	When pollen tube e	enters through the fu	nicul	us or integumer	nts or	base of the ovule, it	
	(1) Chalazogamy	(2) Isogamy	(3)	Mesogamy	(4)	Porogamy	
92.	The development of	of seedless fruit is kn	nown	as			
	(1) apogamy	(2) parthenocarpy	(3)	apospory	(4)	parthenogenesis	
93.	Leaf apex is modif	ied into tendril in					
	(1) Gloriosa	(2) Smilax	(3)	Lathyrus	(4)	Pisum	
94.	Desert plants are	usually				-	
	(1) herbaceous	(2) woody	(3)	viviparous	(4)	succulents	
95.	The endosperm in divisions are free r	which first nuclear nuclear is called	divis	sion is followed	by v	wall but rest of the	
	(1) helobial		(2)	cellular			
	(3) nuclear		(4)	endosperm ha	ustor	ium	

14

96.	The rhizoids of Pogonatum are		
	(1) unicellular	(2)	unicellular with septa
	(3) bicellular	(4)	multicellular with oblique septa
97.	Phylloclade is the modification of		
	(1) petiole (2) rachis	(3)	root (4) stem
98.	Beta vulgaris (beet root), a major source	of	sugar, belongs to the family
	(1) Amaranthaceae	(2)	Chenopodiaceae
	(3) Basellaceae	(4)	Myrtaceae
99.	Hypogynous flower is that where		
	(1) ovary is inferior	(2)	ovary is half-inferior
	(3) ovary is superior	(4)	ovary is obliquely placed
100.	Khus' is obtained from the		
	(1) wood of Santalum album	(2)	leaves of Callistemon lanceolatus
	(3) flower bud of Syzygium anomaticum	(4)	roots of Vetiveria zizanioides
101.	In Sphagnum, the gametophyte structuknown as	re o	compensating for the absence of seta is
	(1) columella	(2)	sporangiophore
	(3) pseudopodium	(4)	elaterophore
102.	A fertile layer bearing asci or basidia is	naı	med as
	(1) Hymenium (2) Ascus	(3)	Basidium (4) Sporangium
(256)	15		(P.T.O.)

103. Which of the following is the causal organism of the white rust of crucifers						of crucifers?					
	(1)	Alternaria	(2)	Albugo	(3)	Synchytrium	(4)	Phytophthora			
104.	Jut	e is obtained fro	om								
	(1)	Cannabis sativo	ī		(2)	Linum usitatiss	imum	ı			
	(3)	Corchorus caps	ulari	S	(4)	Sida cordifolia					
105.	The	e term herbariu	m' r	efers to							
	(1)	a piece of plan	t sa	mple							
	(2)	a store-house o of classification		ntified plant spe	cime	ns in the sequer	ice of	an accepted system			
	(3)	a store-house o	of la	rge trees							
	(4)	a stiff grass									
106,	Inverted cortical vascular bundles are found in										
	(1)	Mimosa pudica			(2)	Amaranthus vi	ridis				
	(3)	Nyctanthes arbo	or-tri	stis	(4)	Mirabilis jalapa	ι				
107.	Dark reaction of photosynthesis takes place in										
	(1)	stroma			(2)	grana					
	(3)	cytoplasm			(4)	endoplasmic re	eticul	um			
108.	The	e fruit of <i>Ricinus</i>	con	nmunis is							
	(1)	Lomentum	(2)	Carcerulus	(3)	Cremocarp	(4)	Regma			
109.	A s	single gene muta	tion	affecting more	than	one phenotype	is ca	alled			
	(1)	pleiotropic	(2)	auxotrophic	(3)	azotrophic	(4)	chromatin			
(256)				16	5						

110.	Edible part(s) of Anacardium occidentale is/are								
	(1) endosperm			(2)	fleshy aril				
	(3) cotyledon and	thalaı	mus	(4)	mesocarb and	endo	sperm		
111.	The function of telomere is								
	(1) to stop transcri	iption	1						
	(2) to initiate trans	script	ion						
	(3) to separate chr	omos	somes during ce	ll di	vision		·		
	(4) to maintain the	e indi	ividuality of chr	omo	somes				
112.	A male gamete with	h late	erally inserted d	imor	phic flagella is f	ound	<b>1</b> in		
	(1) Chara	(2)	Vaucheria	(3)	Nostoc	(4)	Ectocarpus		
113.	Which of the follow	ring h	nas nematodont	ous	peristome?				
	(1) Sphagnum	(2)	Anthoceros	(3)	Pogonatum	(4)	Pellia		
114.	Which of the follow	ing f	amilies has uni	locul	ar superior ovar	y?			
	(1) Papaveraceae	(2)	Cucurbitaceae	(3)	Asteraceae	(4)	Solanaceae		
115.	The living fossil Gi	nkgo	biloba belongs t	Ю.					
	(1) Bryophyta	(2)	Pteridophyta	(3)	Gymnosperms	(4)	Angiosperms		
116.	The largest size of	male	gametes is four	nd ii	n				
	(1) Cycas		Pinus	(3)		(4)	Pteris		
	(x) egem	(27)	1 11 11 11 11	(0)	ιπευρασ	(+)	110100		
256)			17				(P.T.O.,		

117.	'Saffron' is the dried style and stigmas of Crocus sativus, belongs to family							
	(1) Brassicac	eae (2)	Liliaceae	(3)	Amaryllidaceae	(4)	Iridaceae	
118.	An autotetrap	loid plant	bearing a gen	otype .	AAA, is called as	S		
	(1) Trisomic	(2)	Monosomic	(3)	Triplex	(4)	Triploid	
119.	Carpogonia as	re not four	nd in					
	(1) Polysipho	nia		(2)	Coleochaete			
	(3) Batrachos	permum		(4)	Sargassum			
120.	Thr fruit of co	oriander is	S					
	(1) cremocar	p (2)	samara	(3)	follicle	(4)	silicula	
121.	Quiscent cent	tre is pres	ent in					
	(1) shoot ape	ex		(2)	vegetative apex			
	(3) reproduct	ive apex		(4)	root apex			
122.	When micropy	yle, chalaz	a and funicle a	ire pres	sent in a straigh	t lin	e, the ovule is calle	æd
	(1) Hemitrope	ous		(2)	Orthotropous			
	(3) Amphitro	pous		(4)	Anatropous			
123.	Who has divid	ded the Da	icotyledons int	o Lign	osae and Herbac	eae:	?	
	(1) Linnaeus			(2)	Bentham and H	łook	er	
	(3) Hutchinso	on		(4)	Bessey			
(256)			. 1	18				

(P.T.O.)

124.	Phyllode is found in						
	(1) Acacia auriculiforn	nis	(2)	Acacia arabica			
	(3) A. farnesiana		(4)	A. polycantha			
125.	The dehiscence of fru	its, in a follicle occ	curs	by			
	(1) ventral and dorsa	d suture	(2)	ventral suture			
	(3) base upward		(4)	pores			
126.	Which one of the follo	owing is not a puls	se?				
	(1) Cajanus cajan		(2)	Pisum sativum			
	(3) Cicer aeritinum		(4)	Triticum sativum	:		
127.	Loss of water from th	ne tip of leaves is o	alle	d			
	(1) guttation (2	2) transpiration	(3)	respiration	(4)	evaporation	
128.	The aquatic fern is						
	(1) Selaginella (2	2) Pteris	(3)	Azolla	(4)	Lycopodium	
129.	A chemical that is co	mmonly used to p	rese	rve the parts of	plan	t is	
	(1) benzene (2	2) alcohol	(3)	acetic acid	(4)	formalin	
130.	Formation of embryo	from an unfertilize	d e	gg is called			
	(1) parthenogenesis		(2)	parthenocarpy			
	(3) apogamy		(4)	apospory			

19

(256)

131.	. Tikka disease of goundnut is caused by					
	(1) Albugo candida	(2)	Phytophthora infestans			
	(3) Cercospora personata	(4)	Sclerospora graminicola			
132.	Coralloid root of Cycas contains					
	(1) red algae (2) brown algae	(3)	fungi (4) blue-green algae			
133.	Gemma cups are found in the thallu	ıs of				
	(1) Pellia (2) Porella	(3)	Marchantia (4) Riccia			
134.	Carpospores of Batrachospermum are	e				
	(1) naked and non-motile	(2)	naked and motile			
	(3) covered and non-motile	(4)	covered and motile			
135.	Which one of the following is the ca	usal org	ganism of wart-disease of potato?			
	(1) Alternaria solani	(2)	Phytophthora infestans			
	(3) Albugo candida	(4)	Synchytrium endobioticum			
136.	Spindle appratus is made up of					
	(1) endoplasmic reticulum	(2)	microtibules			
	(3) sphaerosomes	(4)	polysomes			
137.	Which one of the following is a bact	terial dis	sease?			
	(1) Citrus canker	(2)	papaya leaf curl			
	(3) tomato fern leaf	(4)	citrus tristeza disease			
(256)		20				

138.	Winged seeds are found in								
	(1) Cycas (2)	Pinus	(3)	Gnetum	(4)	Ephedra			
139.	'Maiden Hair Tree' is th	e name given to	•						
	(1) Cycas (2)	Pinus	(3)	Ginkgo	(4)	Cryptomeria			
140.	Natural rubber is obtained from the latex of								
	(1) Calotropis gigantea		(2)	Ficus bengalensis					
	(3) Alstonia scholaris		(4)	Hevea brazilien:	sis				
141.	The term ecology was p	proposed by							
	(1) Reiter		(2)	R. Misra					
	(3) Tansley		(4)	Weaber and Cle	emer	nts			
142.	Which one of the follow	ving pteridophyte	es ha	as the largest nu	mbe	er of chromosome?			
	(1) Lycopodium clavatu	m	(2)	Azolla pinnata					
	(3) Ophioglossum reticu	latum	(4)	Selaginella sp.					
143.	A powerful hallucinoger	nic drug, LSD is	obta	ained from					
	(1) Papaver somniferum	ı	(2)	Claviceps purpu	rea				
	(3) Ranwolfia serpentin	α	(4)	Nicotiana tabacı	ım				
144.	Study of pollen and sp	ores is known a	s						
	(1) Ecology (2)	Embryology	(3)	Palynology	(4)	Morphology			
(256)		21				(P.T.O.)			
()		41				(1.1.0.)			

145.	Total number of series in Bentham and Hooker's system of classification are								
	(1)	seven	(2)	eleven	(3)	twenty-one	(4)	nine	
146.	The	single shield sh	ape	d cotyledon in m	ono	cots is called			
	(1)	Scutellum	(2)	Epiblast	(3)	Epicotyle	(4)	Tigellum	
147.	Wh	ich of the followi	ng j	oossesses winged	l pet	iole?			
	(1)	Asparagus	(2)	Citrus	(3)	Cassia	(4)	Bombax	
148.	Mei	ndel chose pea p	lant	s because					
	(1) they were cheap								
	(2) they were easily available								
	(3) they were having contrasting characters								
	(4)	of their great ed	ono	mic importance					
149.	'Am	phisarca' fruit is	s rel	ated to					
	(1)	Aegle marmelos			(2)	Citrus aurantifol	ia		
	(3)	Cocos nucifera			(4)	Areca catechu			
150.	In 1	Indian Botanical	Gar	den, Sibpur, Cal	lcutt	a was establishe	d by	y	
	(1)	Linnaeus			(2)	Robert William	Kyd		
	(3)	D. Brandis			(4)	R. N. Parker			

\*\*\*

## अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण-पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली या काली बाल-प्वाइंट पेन से ही लिखें)

- 1. प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- 2. परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
- 3. उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा, केवल उत्तर-पत्र का ही मृल्यांकन किया जायेगा।
- 4. अपना *अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन* से निर्धारित स्थान पर लिखें।
- 5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. ओ॰ एम॰ आर॰ पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक सं॰ और ओ॰ एम॰ आर॰ पत्र सं॰ की प्रविष्टियों में उपिरलेखन की अनुमित नहीं है।
- उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
- 8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाड़ा करना है।
- 9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना आयेगा।
- 10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का *उत्तर नहीं देना चाहते* हैं, तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृतों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
- 11. रफ़ कार्य के लिये प्रश्न-पुस्तिका के मुखपृष्ठ के अन्दर वाले पृष्ठ तथा अंतिम पृष्ठ का प्रयोग करें।
- 12. परीक्षा के उपरान्त केवल *ओ०एम०आर० उत्तर-पत्र* परीक्षा भवन में जमा कर दें।
- 13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
- 14. यदि कोई अश्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।