

304

otal No. of Printed Pages : 28	Question Booklet No
(To be filled up by the	candidate by blue/black ball-point pen)
coll No.	
oll No. (Write the digits in words)	(3019)
ertal No. of OMR Answer Sheet	
entre Code No.	***************************************
ay 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 OMR Answer Sheet)

- Within 30 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 Supermental It/Invigilators immediately to obtain a
 fresh Question Booklet.
- 2. Do not bring any loose paper, written a bank, inside the Examination Hall except the Admit Card.
- 3. A separate OMR Answer Sheet is given. It wild not be bilded or rutilated. A second OMR Answer Sheet shall not be provided. Only OML Answer Che L will be evaluated.
- 4. Write all the entries by blue/black ball pen in the space provided above.
- 5. On the front page of the OMR Answer Sheet, write by per your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, write the Question Booklet Number, Centre Code Number and the Set Number (wherever applicable) in appropriate places.
- No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR Answer Sheet and also Roll No. and OMR Answer Sheet Serial No. on the Question Booklet.
- 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 OMR Answer Sheet by darkening the appropriate circle in the corresponding row of the OMR Answer Sheet, by ball-point pen as mentioned in the guidelines given on the first page of the OMR Answer Sheet.
- For each question, darken only one circle on the OMR Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 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).
- For rough work, use the inner back page of the title cover and the blank page at the end of this
 Booklet
- On completion of the Test, the Candidate must handover the OMR Answer Sheet to the Invigilator
 in the examination room/hall. However, candidates are allowed to take away Text Booklet and copy
 of OMR Answer Sheet with them.
- 3. Candidates are not permitted to leave the Examination Hall until the end of the Test.
- 4. It 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.

ाय = निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गए हैं]



SPACE FOR ROUGH WORK

रफ़ कार्य के लिए जगह



No. of Questions: 120

Time: 2 Hours

Note: (

- (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.
- (2) If more than one alternative answers seem to be approximate to the correct answer, choose the closest one.
- 1. A life cycle in which the dominant phase is a sporophyte is known as
 - (1) Sporophytic (2) Haplontic
- (3) Diplontic
- (4) Diplobiontic

- 2. Fucoxanthin pigment is found in
 - (1) Green algae

(2) Red algae

(3) Blue-green algae

- (4) Brown algae
- 3. Synzoospore is found in
 - (1) Vaucheria
- (2) Oedogonium
- (3) Spirogyra
- (4) Nostoc

55) (P.T.O.)



4.	Slimy and slippery nature of Nostoc	is due to covering of
	(1) Mucilage (2) Gelatin	(3) Mucous (4) Jelly
5.	When the entire body of a fungus structure, the organism is called (1) Epicarpic (2) Holocarpic	is used in the formation of reproduct (3) Acarpic (4) Eucarpic
6.	A flask-shaped fruiting body of Asc	omycotina is called
	(1) Perithecium	(2) Apothecium
	(3) Cleistothecium	(4) Sclerotium
7.	The flagella on the zoospores of All	ougo are
	(1) Equal terminal	(2) Unequal lateral
	(3) Unequal terminal	(4) Equal lateral
8.	Which one of the following is comm	nonly called as blue-green mould?
	(1) Penicillium (2) Aspergillus	(3) Erysiphe (4) Mucor
9.	Which one of the following is called	l 'Reindeer's moss'?
	(1) Usnea (2) Cladonia	(3) Parmelia (4) Loberia
(55)	2	



10.	S. R. Kashyap is	a scientist famou	as for	
	(1) Bryology	(2) Mycology	(3) Phycology	(4) Pteridology
		*		
11.	Which one of the	following species	of Riccia is aquat	ic?
	(1) Riccia discolor	-	(2) Riccia fluitai	ns
	(3) Riccia crystall	ina	(4) Riccia Hima	layensis
12.	The air cavities in cells which are ca	the capsule of malled as	oss are partitioned	with delicate strands of
	(1) Trabeculae		(2) Compartmen	nts
	(3) Partitions		(4) Septa	
13.	The gametophyte	of moss is		
	(1) Capsule	(2) Protonema	(3) Seta	(4) Zygote
14.	Which one of the	following does no	t have a pith?	
	(1) Protostele	(2) Dictyostele	(3) Solenostele	(4) Siphonostele
15.	Which one of the	following is a fos	sil?	
	(1) Selaginella	(2) Rhynia	(3) Pteris	(4) Adiantum
(55)		3	}	(P.T.O.)



16	Gametangia of ferns a	are produced of	n			
16.	700-50	Sorus		Leaves	(4)	Ramenta
	(1) Produantes (2)	bords	(-)		1.1	
17.	Which one of the follo	owing is called	'wal	king fern'?		
	(1) Pteris (2)	Adiantum	(3)	Ophioglossum	(4)	Selaginella
18.	The enzyme involved	in feedback inh	nibit	ion are called		
	(1) Holoenzyme		(2)	Apoenzyme		
	(3) Coenzyme		(4)	Allosteric enzy	me	
19.	Trimerous flowers, su	perior ovary ar	nd a	xile placentatio	n is	found in
	(1) Amaranthaceae		(2)	Liliaceae		
	(3) Apocyanaceae		(4)	Rubiaceae		
20.	Rice fruit is an examp	ple of				
		Cypsela	(3)	Cremocarp	(4)	Caryopsis
21.	Pentoxylon was discov	ered by Birbal	Sal	nni from		
	(1) Nilgiri Hills		(2)	Western Ghat		3,0
	(3) Rajmahal Hills		(4)	Valley of Flow	ers	
22.	Floral buds are modif	ied into tendril	s in	ı		
	(1) Bignonia (2)	Antigonon	(3)	Coccinia	(4)	Clematis
(55)		4				



23.	Perisperm in seeds develops from (1) Funiculus (2) Hilum	(3) Nucellus (4) Obturator	
24.	Monosporic type of embryo sac deve (1) Lilium (2) Allium	relopment is found in (3) Oenothera (4) Fritillaria	
25.	Diploxylic vascular bundle is found	l in	
	(1) Cycas leaves	(2) Cycas root	
	(3) Pinus needle	(4) Gnetum leaves	
26.	Stylopodium is found in the family (1) Poaceae (3) Apiaceae	(2) Cyperaceae (4) Ranunculaceae	
27.	Betalins are present in the family		
	(1) Brassicaceae	(2) Cactaceae	
	(3) Solanaceae	(4) Apocynaceae	
28.	The resin duct of a gymnospermous	s stem is an example of	
	(1) Intercellular space	(2) Schizogenous cavity	
	(3) Lysigenous cavity	(4) Big vacuole	
(55)	5	5	(P.T.O.)



55)		6
	(3) Solanaceae	(4) Amaranthaceae
	(1) Asteraceae	(2) Ranunculaceae
33.	One chambered, one seeded fruitfound in	it developed from a bicarpellary inferior ovary is
	(4) Gynoecium bicarpellary	
	(3) Ovary with two feathery sti	gma
	(2) Spikelet inflorescence	
	(1) Fistular stem	
32.		tements is not true for family Poaceae?
	(3) Companion cells	(4) Sclereids
	(1) Vessels	(2) Tracheids
31.	Wood is classified as porous if	
	(3) Ovule	(4) Dwarf shoot
	(1) Megasporophyll	(2) Microsporophyll
30.	The ovuliferous scale of Pinus i	s a part of
	(3) Ovuliferous scale	(4) Carpellary scale
	(1) Integument	(2) Nucellus
29.	The wing on the seed of Pinus	is developed from



34.	Cystoliths are usually found in fam	ily		
	(1) Acanthaceae	(2)	Solanaceae	
	(3) Asclepiadaceae	(4)	Poaceae	
35.	Which one of the following states	men	ts is wrong with regard t	o family
	(1) Exstipulate leaves	(2)	Inferior ovary	
	(3) Axile placentation	(4)	Actinomorphic flower	
36.	Which one of the following plant is	rela	ted to anther culture?	
	(1) Calotropis procera	(2)	Datura innoxia	
	(3) Ocimum sanctum	(4)	Jatropha curcas	
37.	The first 5-carbon dicarboxylic acid	in K	reb's cycle is	
	(1) Acetyl CoA	(2)	Citric acid	
	(3) α-ketoglutaric acid	(4)	Oxaloacetic acid	
38.	'Physiognomy' is the study of			
	(1) Distribution of vegetation in rela	tion	to temperature	
	(2) Effects of light on the flowering	of p	lants	
	(3) General appearance of vegetation	ı		
	(4) Seasonal change in vegetation			
55)	7			(P.T.O.)

(55)



(55)

39.	The zone of atmosphere which conta	ins protective ozone layer is known as
	(1) Troposphere	(2) Thermosphere
	(3) Stratosphere	(4) Mesosphere
40.	'Blue baby' syndrome is caused due	to pollution by
	(1) Nitrates (2) Fluorides	(3) Cyanides (4) Arsenic
41.	The amount of water retained by the water is called as	ne soil after the drainage of gravitation
	(1) Wilting coefficient	(2) Soil moisture content
	(3) Field capacity	(4) Combined water
42.	Psychrometer is the instrument use	d to determine
	(1) Light intensity	(2) Relative humidity
	(3) Water potential	(4) Wind speed
43.	Air pollutant-photochemical oxidants	s include
	(1) Nitrous oxide, nitric oxide and n	nitric acid
	(2) Oxygen, chlorine and nitric acid	
	(3) Carbon monoxide, dust and sulp	phur dioxide
	(4) Ozone, peroxyacetyl nitrate and	aldehydes



44.	A secondary poll	utant is		19	
	(1) CO	(2) CO ₂	(3) O ₃	(4) SO ₂	
45.	The term 'niche'	tells us			
	(1) How species	differ in their te	mporal activities	with the annual cyc	ele
	(2) How a specie	s population is	specialized within	a community	
	(3) About vertical	stratification as	nd light variabili	ty in a vegetation	
	(4) Pattern of dis	tribution of indi	viduals within a	community	
46.	Liquid that seeps dissolved materia	through solid w ls is known as	vastes or other n	nedium and has extr	acts of
	(1) Pellet	(2) Leachate	(3) Vadose	(4) Litter	
47.	Tiny liquid or sol	id particles float	ing in the air ar	e known as	
	(1) Clay particles		(2) Aerosols		
	(3) Grit		(4) Jackson	candle	
48.	Density of smoke	is measured on			
	(1) Ringelmann se	cale	(2) Montreal	scale	
	(3) Winkler scale		(4) Raunkiae	r scale	
(55)			9		(P.T.O.)
				19	and the second second



54.	4. The plants which are mostly found in arid zone and have their buds complete hidden in soil as bulbs or rhizomes are known as	
	(1) Therophytes (2) Chamaephytes	
	(3) Cryptophytes (4) Phanerophytes	
55.	5. The facilitation model of succession characterizes the following	
	(1) Inhibition view (2) Monoclimax view	
	(3) Polyclimax view (4) Maturation of communit	ies
56.	6. Carrying capacity of population is defined as	
	(1) The level at which population is theoretically in equilibriu	ım with its
	(2) The level at which population is theoretically well above surrounding environment	e with its
	(3) Population is fluctuating all the time with changing environm	ent
	(4) Total number of individual in a population at a particular tin	
57.	7. Synergistic effect of two chemicals is defined as	
	(1) The combined effect is equal to the sum of individual effect of the	chemicals
	(2) The combined effect is less than the sum of the individual e chemicals	
	(3) The combined effect is more than the sum of the individu chemicals	al effect of
	(4) The combined effect may be equal to zero	
55)	11	(P.T.O.)



49. The oxidizing agent used in COD test

(1) Potassium dichromate

	(3) Magnesium carbonate (4) Potassium chlorate
50.	The most important method to establish microbial diversity is
	(1) Measuring muramic acid in cell wall
	(2) RFLP analysis
	(3) 16S rRNA sequencing
	(4) Measuring total DNA content
51.	Ephemerals are the most common life form in
	(1) Severe desert situations (2) Severe cold situations
	(3) Humid regions (4) Tropical rain forests
	The amount of water that can be absorbed from soil by plant is called
52.	
	(1) Holard (2) Chresard (3) Echard (4) Solard
53.	The specific natality rate is represented by a formula (where N = initial number of organism, n = new individuals in the population and t = time)
	(1) $\frac{\Delta Nn}{\Delta t}$ (2) $\frac{\Delta Nn}{N\Delta t}$ (3) $\frac{(\Delta Nn - \Delta N)}{\Delta t}$ (4) $\frac{(\Delta Nn + 2)}{\Delta t}$
(55)	10

(2) Potassium iodide



58.	Pseudomurein is present in the cel	1 wall of
	(1) Bacillus	(2) Clostridium
	(3) Streptococcus	(4) Methanococcus
59.	Which one of the following can can	ry out photosynthesis?
	(1) Holobacteria	(2) Methanococcus
	(3) Mycoplasma	(4) Thermoplasma
60.	Aspergillus is a	
	(1) Chemoorganotroph	(2) Chemolithotroph
	(3) Photoorganotroph	(4) Photolithotroph
61.	An example of helical virus is	
	(1) Bacteriophage	(2) TMV
	(3) Herpes virus	(4) Turnip yellow mosaic virus
62.	Which one of the following is known	wn for retroviruses?
	(1) Howard Temin	(2) Adolf Mayer
	(3) D. Iwanowski	(4) W. Stanley
63.	Riboflavin is obtained from	
	(1) Acetobacter sp.	(2) Ashbya gossypii
	(3) Aspergillus niger	(4) Rhizopus sp.
(55)		12



64.	Transduction was discovered by	
	(1) Robert Koch	(2) Lederberg and Tatum
	(3) F. Griffith	(4) Lederberg and Zinder
65.	Parasexuality was discovered in	
	(1) Aspergillus niger	(2) Neurospora crassa
	(3) Aspergillus nidulans	(4) Penicillium citrinum
6 6 .	Damping-off of seedlings is caused	d by
	(1) Pythium (2) Puccinia	(3) Ústilago (4) Cercospora
67.	Gene-for-gene relationship between	n host and pathogen was demonstrated first
	(1) Wilt of Arhar	(2) Flax rust
	(3) Powdery mildew of Barley	(4) White rust of crucifers
68.	Active biochemical defense is indu	aced by
	(1) Tyloses	(2) Phytoalexins
	(3) Cork layer	(4) Gum deposition
69.	Source of a potential biopesticide	is
	(1) Trichoderma (2) Curvularia	(3) Aspergillus (4) Neurospora
55)		13 (P.T.O.)



70.	Downy mildews are caused by		
	(1) Ascomycota	(2)	Basidiomycota
	(3) Oomycota	(4)	Zygomycota
71.	Red rot of sugarcane is caused by		
	(1) Pythium	(2)	Phytophthora
	(3) Colletotrichum	(4)	Rhizoctonia
72 .	Covered smut of barley is caused by	y	
	(1) Ustilago hordei	(2)	Ustilago avenae
	(3) Ustilago nuda	(4)	Tilletia caries
73.	The pathogen of stem rust of wheat	infe	ects its primary host by
	(1) Teliospores (2) Aeciospores	(3)	Spermatia (4) Basidiospores
74.	A thick walled oospore develop in		
	(1) Citrus canker	(2)	White rust of crucifers
	(3) Bunt of wheat	(4)	Little leaf of brinjal
75.	Chemical name of kinetin is		
	(1) 6-furfuryl amino purine	(2)	6-furfuryl amino pyrimidine
	(3) 5-furfuryl amino purine	(4)	5-furfuryl amino pyrimidine



76.	The 'Polyclimax Theory' was gi	iven by	
	(1) Clements (2) Tansley	(3) Daubenmire (4) Watt	
	*		
77.	In which one of the following occur?	isomorphic alternation of generation	does not
	(1) Ectocarpus	(2) Ulva	
	(3) Draparnaldiopsis	(4) Laminaria	
78.	In which mitotic phase, the n	ucleolus usually dissolves?	
	(1) Anaphase (2) Metapha	ase (3) Prophase (4) Telophas	e
70	Synaptonemal complex is four	nd between	
79.			
	(1) Sister chromatids		
	(2) Non-sister chromatids		
	(3) Sister as well as non-siste	er chromatids	
	(4) Nucleotides		
80.	The eukaryotic DNA, in nativ	e form, is present in	
80.		(2) B conformation	
	(1) A conformation	(4) Z conformation	
	(3) C conformation	(4) Z comormation	
55)		15	(P.T.O.)



81.	Which cell organelle is called suicide bag?			
	(1) Peroxisomes (2) Golgi bodies			
	(3) Mesosomes (4) Lysosomes			
82.	Which phase of the cell cycle is biosynthetically most active phase?			
	(1) Telophase (2) Anaphase (3) Metaphase (4) Interphase			
83.	Chromatin is composed of			
	(1) Histones, DNA and RNA			
	(2) Non-histones, DNA and RNA			
	(3) Histones, Non-histones and DNA			
	(4) Histones, Non-histones, DNA and RNA			
84.	. Multiple allelism usually occurs at			
	(1) Different loci in the same chromosome pair of an individual			
	(2) Different loci in the different chromosome pairs of different individual			
	(3) Same locus in similar chromosome pairs of different individuals			
	(4) Same locus in dissimilar chromosome pairs of different individuals			
85.	Which one of the following trisomy is characterized by the formation of a ring three synaptic chromosomes?			
	(1) Primary (2) Secondary (3) Tertiary (4) Quarternary			
(55)	16			



86.	In a dihybrid cross, F2 phenotypic	ratio 15:1 results due to	
	(1) Epistatic genes	(2) Duplicate genes	
	(3) Inhibitory genes	(4) Complementary genes	
87.	Which one of the following is incorp	porated into DNA as a base analogue?	
	(1) Ethyl methane sulphonate	(2) Nitrous acid	
	(3) 5-Bromouracil	(4) Sodium azide	
88.	Satellite DNA is made up of		
	(1) Tandemly repeat sequences		
	(2) Unique sequences		
	(3) Non-tandemly repeat sequences		
	(4) Interspersed repeat sequences		
89.	Which one of the following is most	prevalent in natural plant population?	
	(1) Monoploids	(2) Diploids	
	(3) Autopolyploids	(4) Allopolyploids	
90.		s which form 6 bivalents at meiosis. with 4 bivalents and 2 univalents at meios	
	(1) Disomic	(2) Double monosomic	
	(3) Double trisomic	(4) Nullisomic	
55)	17	7 (P.T.	0.)



91.	Mendelian principle which has always stood the test of time is		
	(1) Law of dominance	(2) Law of segregation	
	(3) Law of co-dominance	(4) Law of independent assortment	
92.	The cross which is performed to aso	ertain cytoplasmic inheritance is	
	(1) Back cross	(2) Distant cross	
	(3) Reciprocal cross	(4) Test cross	
93.	Which one of the following plant is	an illuminating example of trisomy?	
	(1) Coccinia	(2) Tradescantia	
	(3) Datura	(4) Oenothera	
94.	Crosses between diploid males and produce	triploid females are preferably made to	
	(1) Trisomic plants	(2) Monosomic plants	
	(3) Nullisomic plants	(4) Triploid plants	
95.	Karyotype has changed through		
	(1) Chromosome structural changes		
	(2) Chromosome numerical changes		
	(3) Genic changes		
	(4) Chromosome structural, numeric	cal and genic changes	
(55)	18		



06	The				
90.	The most potent chemical mu	itagen is			
	(1) MMS (2) MNNG	(3) EMS	(4) BUrD		
97.	Expression of characters, in	ression of characters, in eukaryotic organisms, is mostly			
	(1) Monogenic	(2) Monoallelio			
	(3) Polygenic	(4) Multiple al	letic		
98.	Dimerization takes place between	veen the bases			
	(1) Adenine and thymine	(2) Guanine a	nd thymine		
	(3) Adenine and adenine	(4) Thymine a	nd thymine		
99.	Effect of colchicine on the dividing plant nuclei is				
	(1) Doubling of chromosome number				
	(2) Condensation of chromosomes				
	(3) Doubling and condensation	on of chromosomes			
	(4) Activation of cell division				
.00. The non-polar molecules show a tendency to associate other low polar solvents. This tendency is called		te in water compared with			
	(1) Hydrophillic effect	(2) Hydrophob	oic effect		
	(3) Colloidal effect	(4) Emulsifyin	g effect		
55)		19	(P.T.O.		



101.	Solute potential of water is		
		3) 0·5 MPa	(4) 0·25 MPa
102.	Energy transfer among pigments in th	e antenna is a p	ourely
	(1) Chemical phenomenon (2) Physical phen	omenon
	(3) Biochemical phenomenon	4) Gravitational	phenomenon
103.	Plastocyanin is present in		
	(1) Stroma	2) Thylakoid me	mbrane
	(3) Luminal space	4) Stroma lamel	lae
104.	Carotenoids give their characteristic because	orange colour is	n 400-500 nm region
	(1) It is long polyenes		
	(2) It has multiple conjugated double	bond	
	(3) It has no porphyrin like ring struc	ture	
	(4) It has no Mg in its molecules		
105.	Changing oxidation states of which io PS-II?	n is responsible	for evolution of O ₂ at
	(1) Mg (2) Mn (3	3) Ca	(4) Cl
(55)	20		
0.00			



5.	Organic acid such as oxalic acid is relatively richer in oxygen compared to carbohydrates. So, RQ value of organic acid for complete oxidation, will be				
	(1) 3	(2) 1	(3) 4	(4) 6	
107.	During electron molecules prod	movement from uced are	FADH ₂ to O ₂ in m	itochondria, numb	er of ATP
	(1) One	(2) Three	(3) Two	(4) Four	
108.	Conversion of f	at to carbohydra	tes in germinating	seeds involves	
	(1) Glyoxysome	only			
	(2) Mitochondr	ia only			
	(3) Glyoxysome and mitochondria both				
	(4) Glyoxysome	and chloroplast	both		
109.	The release of	free energy from	hydrolysis of one	ATP molecule is	
	(1) $\Delta G' = -6500$	cal/mol	(2) $\Delta G' = -22$	200 cal/mol	
	$(3) \Delta G' = -7600$	cal/mol	$(4) \Delta G' = -86$	600 cal/mol	
10.	NO ₂ is reduced	to NH ₃ by nitrit	e reductase enzyn	ne. It involves	
	(1) 2e ⁻	(2) 4e ⁻	(3) 6e ⁻	(4) 3e	
55)			21		(P.T.O.)



111.	Characteristic feature of an enzyme which introduces a nick (or cut) on only one of the DNA strands during replication and does not require ATP to work is					
	(1) DNA topoisomerases (Type I)					
	(2) DNA topoisomerases (Type II)					
	(3) DNA ligases					
	(4) DNA polymerases					
112.	Which level of protein organisation is most stable on heating to 80 °C?					
	(1) Primary structure (2) Secondary structure					
	(3) Tertiary structure (4) Quaternary structure					
113.	Polysomes consist of					
	(1) Several dictyosomes					
	(2) Several ribosomes					
	(3) Several ribosomes attached to the same mRNA					
	(4) Several ribosomes attached to the different mRNA					
114.	tRNA fmet is absent in					
	(1) Bacteria (2) Cyanobacteria					
	(3) Eukaryotes (4) Viruses					
115.	Which one of the following is a hydrogen transferring coenzymes?					
	(1) Pyridoxine phosphate (2) CoA					
	(3) Riboflavin coenzymes (4) Lipoic acid					
(55)	22					



116.	5. Sigmoidal type of curve is the characteristic feature of		
	(1) Isoenzymes	(2)	Allosteric enzymes
	(3) Coenzymes	(4)	Ribozymes
117.	Auxin increases		
	(1) Respiration rate	(2)	Photosynthesis
	(3) Toxic effect	(4)	Fat metabolism
118.	Leaf fall in a plant occurs due to		
	(1) Decrease in auxin content		
	(2) Increase in auxin content		
	(3) Decrease in abscisic acid conte	ent	
	(4) Decrease in gibberellic acid co	ntent	
1 19 .	Phytochrome far red is required for	or flow	ering in
	(1) Both long and short day plant	ts	
	(2) Long day plants only		
	(3) Short day plants only		
	(4) Day neutral only		



- 120. Which one of the following statements is correct?
 - (1) 16 molecules of ATP per hexose molecule is used in C3 pathway
 - (2) 18 molecules of ATP per hexose molecule is used in C3 pathway
 - (3) 28 molecules of ATP per hexose molecule is used in C4 pathway
 - (4) 18 molecules of ATP per hexose molecule is used in C4 pathway



SPACE FOR ROUGH WORK रफ़ कार्य के लिए जगह



अभ्यर्थियों के लिए निर्देश

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

- प्रश्न-पुस्तिका मिलने के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई पृष्ठ या प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- परीक्षा भवन में प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
- ओ॰एम॰आर॰ उत्तर-पत्र अलग से दिया गया है। इसे न तो मोइं और न ही विकृत करें। दूसरा ओ॰एम॰आर॰ उत्तर-पत्र नहीं दिया जायेगा। केवल ओ॰एम॰आर॰ उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
- सभी प्रविष्टियां प्रथम आवरण-पृष्ठ पर नीली/काली बाल पेन से निर्धारित स्थान पर लिखें।
- 5. ओ०एम०आर० उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तां को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक एवं केन्द्र कोड नम्बर तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. ओ०एम०आर० उत्तर-पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक सं० और ओ०एम०आर० उत्तर-पत्र सं० की प्रविष्टियों में उपिरलेखन की अनुमित नहीं वे
- उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित मान्त का प्रयोग माना जायेगा।
- 8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के धैकल्पिक उत्तर के लिये आपक ओ०एम०आर० उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को ओ०एम०आर० उत्तर-पत्र के प्रथम नृष्य पर दिये गये निर्देशों के अनुसार पेन से गाड़ा करना है।
- प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अन्य एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना छान्त हैं, तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शृन्य अंक दिये जायें।
- 11. रफ़ कार्य के लिये प्रश्न-पुस्तिका के मुखपृष्ठ के अन्दर वाले पृष्ठ तथा अंतिम पृष्ठ का प्रयोग करें।
- परीक्षा की समाप्ति के बाद अभ्यर्थी अपना ओ॰एम॰आर॰ उत्तर-पत्र परीक्षा कक्ष/हाल में कक्ष निरीक्षक को सींप हैं। अपने अपने साथ प्रश्न-पुस्तिका तथा ओ॰एम॰आर॰ उत्तर-पत्र की प्रति ले जा सकते हैं।
- 13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमित नहीं होगी।
- यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, अपने होगा/होगी।

