Government of Puducherry Directorate of School Education Competitive Examination for Empanelment of Guest Lecturers-2019

QUESTION BOOKLET

		SUBJECT: BOTANY
ROLL NO:	•••••	

Time: 2:00 Hours

Total Marks: 90

INSTRUCTIONS TO CANDIDATES

- 1) Write Roll Number in the space provided in this Question Booklet above.
- The Candidate should check the question paper that question paper consists of all the pages and that it is not torn.
- 3) Please write the Roll No. etc., on the OMR sheet using Black Ball point pen only.
- 4) The candidate shall use only "BLACK BALL POINT PEN" for marking the answers.
- 5) There are 90 questions. For every correct answer 1 (One) mark will be awarded and for each wrong answer 0.25 mark will be deducted.
- 6) Use of eraser/ whitener/ correction fluid is prohibited on OMR answer sheets.
- 7) Use of calculators, cell phones, logarithmic table, electronic gadgets etc., is strictly prohibited.
- 8) For any rough work, use the rough page given at the end of the Question Booklet.
- 9) The candidate has to deposit the original copy of OMR sheet along with the Hall Ticket after the completion of examination and may carry the duplicate OMR (impression) sheet for reference.
- 10) No candidate is allowed to leave the examination centre premises till the completion of the entire examination process.
- 11) Please avoid marking of answers on Question Booklet.
- 12) The questions in English version alone will be taken as authentic though questions are given in other languages for the convenience of the candidates.

- 1. The induction of adventitious roots and shoots from cells in tissue culture is called as
 - a. Callus culture
- b. Micropropagation
 - c. Organogenesis
 - d. Suspension culture
- 2. Indole-3-acetic acid is a plant growth regulator, belongs to the
 - a. Cytokinins
 - b. Gibbrellins
 - c. Auxins
 - d. None of these
- 3. The most important difference between plasmid and episome is
 - a. Plasmid is circular, episome is linear
 - b. Episomes can be inserted into host genome
 - c. Episome is circular, plasmid is linear
 - d. Plasmid can be inserted into host genome, episomes are not
- 4. A low auxin: cytokinin ratio leads to the formation of
- tot box ba. Roots live stram (and) I sewest storote grave to Landbeaup 00 am atoff (3
 - b. Shoots
 - c. Fruits and flowers no beliefling at blast neitoernoo templida treams to sell to
 - d. All of these
 - 5. Klenow fragments are derived from
 - a. DNA Polymerase-I
 - b. RNA Polymerase-II a beautiful and the moving seeing industry and uses about desired transfer for
- toffe take c. DNA Ligase and the state of th
 - d. Reverse transcriptase man and transplant transplantation and political management and
 - 6. Someone can produce hairy root cultures by use of
 - a. Agrobacterium rhizogenes
 - b. Agrobacterium tumefaciens
 - c. Agrobacterium vitis
 - d. Agrobacterium rubi salaton 8 noizesu 9 no kuswam lo grūžkam blovn sausi (1)
- 7. Which part of fungus is used as spawn for cultivation of mushroom?
 - a. Monokaryotic mycelium
 - b. Fruiting body
 - c. Basidiospores
 - d. Secondary mycelium

- 8. Which is the edible basidiomycetous fungus?
 - a. Amanita
 - b. Morchella
 - c. Lycoperdon
 - d. Polyporus
- 9. What is the most important function of biofertilizers?
 - a. Increase chemical process
 - b. Increase physiological process
 - c. Increase biological process
 - d. Increase photosynthetic process
- 10. The group of individuals taken for study in biostatistics is called as
 - a. Block
 - b. Group
 - c. Population
 - d. Flock
- 11. In biostatistics, flower colour is a type of variable
 - a. Qualitative variables
 - b. Quantitative variables
 - c. Absolute variables
 - d. Continuous variables
- 12. Cryopreservation technique is used for
 - a. Crystallization of food
 - b. Food packing
 - c. Conservation of seeds and propagules
 - d. Preservation of excess production of vegetables
- 13. The pH of soil can be raised by addition of
 - a. Lime
 - b. Sand
 - c. Sulphur
 - d. Nitrogen
- 14. The type of growth regulators present in Rootex solution are
 - a. Auxins
 - b. Cytokinins
 - c. Gibbrellins
 - d. Ethylene
- 15. 'NABARD' is helping through
 - a. Farmers' loaning
 - b. Refinancing to agricultural financing institutions
 - c. Agricultural research
 - d. Development of agriculture

16. Name the instrument which is used for sowing	of seeds with fertilizer together
a. Seed drill	
b. Ferti-cum seed drill	b. Marchalda
c. Dibbler	c. Excuperdus
d. Seed sowing behind plough	
17. What is the most preferred use of plant tissue of	ulture technique?
a. Eliminate virus	
b. Cross two varieties	
c. Rapidly increase the size of the trees by	
d. Improve yield of crops	
18. What are the advantages of artificial methods o	f vegetative propagation?
a. Crops with better quality	
b. Crops with more yield	
c. Ability to produce plants with desirable	
d. None of these	
19. The production of mixture of diploids along wi	th haploids after culturing the anthers is
due to	
a. Exine of pollen grain	
b. Generative cell of pollen grain	
c. Vegetative cell of pollen grain	
d. Cells of anther wall	
20. Name, which is not a plant growth regulator	
a. Auxins	
b. Gibberellins	
d. Ethylene	
21. What is the source of flax fibres?	
a. Linum usitatissimum	
b. Cannabis sativa	
c. Crotalaria juncea	
d. Cocos nucifera mandos estados el mass	
22. Drug, used in normalization of high blood press	sure is obtained from which plant?
a. Aconitum chasmanthum	
b. Rauvolfia serpentina	
c. Centella asiatica	
d. Solanum nigrum	

- 23. The word 'Intellectual property rights' includes
 - a. Know-how
 - b. Copyrights
 - c. Trade dress
 - d. All the above
- 24. What is trade mark?
 - a. It is represented graphically
 - It is capable of distinguishing the goods or services of one person from those of others
 - c. Both (a) and (b)
 - d. None of these
- 25. What is the time duration of protection of literary work in India?
 - a. 25 year after the death of author
 - b. 40 year after the death of author
 - c. 60 year after the death of author
 - d. Lifetime of author
- 26. The type of agreement which is enforceable by law is called as
 - a. Void agreement
 - b. Illegal agreement
 - c. Valid agreement
 - d. Unenforceable agreement
- 27. The plants used by the farmers to make green manure mainly belongs to the family
 - a. Asteraceae
 - b. Fabaceae
 - c. Solanaceae
 - d. Poaceae
- 28. Composted manure is produced from
 - a. Farmyard manure and green manure
 - b. Farm refuse and house hold refuse
 - c. Organic remains of biogas plants
 - d. Rotten vegetables and animal refuse
- 29. Biolistic is suitable for
 - a. Disarming of pathogen vector
 - b. Transformation of plant cells
 - c. Constructing recombinant DNA by joining with vectors
 - d. DNA fingerprinting

30. Which	is the natural insecticide?		
a.	Nicotine		
b.	Pyrethrum		
c.	Both (a) and (b)		
d.	None of these		
31. Tobac	co Mosaic Virus was first isolated in		
a.	Miller	It is represented graphically	
b.	Oparin soo to sooly to suppose to abbone		
c.	Stanley		
d.	Nirenberg		
32. Name	of the causal organism of the disease		
a.	Ustilago		
b.	Penicillium		
c.	Agaricus		
d.	Puccinia	60 year after the death of author	
33. Name	of the fungus which was responsible	for the Bengal famine during 194	42-43?
a.	Xanthomonas malvacearum	pe of aerotment which is enforce	
b.	Pyricularia oryzae		
c.	Helminthosporium oryzae		
d.	Puccinia graminis		
34. What	are VAM?		
a.	Saprophytic bacteria	area used by the farmers to make	
b.	Symbiotic fungi	Asternotae	
c.	Saprophytic fungi		
d.	Symbiotic bacteria		
35. Quara	ntine regulations are related to		
a.	Use of pesticides for the diseased p	osted manure is produced the stnal	
b.	Prevention of entry of diseased plan	nts in the country	
· C.	Growing of trees to save earth from	global warming	
d.	Promotion of dry farming in sandy	Organic remains of biogas plios	
	oducts of fermentation / anaerobic re		
a.	H ₂ O and CH ₃ CHO		
b.	CO ₂ and CH ₃ CHO		
c.	O2 and C2H5OH		
d.	CO2 and C2H5OH		
37. Rhynic	belongs to which geological time so	cale/period? animographii AMG	
a.	Silurian		
b.	Cretaceous		
c.	Devonian		
d.	Other		

- 38. What is the name of the tallest fern?
 - a. Alsophila
 - b. Cyathea
 - c. Dryopteris
 - d. Pteris
- 39. Name of the type of life cycle of Cycas?
 - a. Haplontic
 - b. Diplohaplontic
 - c. Diplontic
 - d. Haploid
- 40. Which is homologous among these?
 - a. Leaves of Moss and Selaginella
 - b. Endosperm of Pinus and prothallus of Adiantum
 - c. Roots of ferns and moss
 - d. Endosperm of Pinus and Maize
- 41. Birbal Sahni Institute of Palaeobotany is located at
 - a. Lucknow
 - b. Kolkata
 - c. New Delhi
 - d. Bangalore
- 42. What is the source of a resin (Canada balsam) used for making of permanent slides?
 - a. Pinus
 - b. Araucaria
 - c. Abies
 - d. Juniperus
- 43. The Silent valley of Kerala is known for it's
 - a. Useful plants
 - b. Natural rain forests of rich biodiversity with a lot of unknown flora and fauna
 - c. Rare microorganisms, plants and animals about which we do not know
 - d. Aesthetic values
- 44. What is autecology?
 - a. Study of biotic component
 - b. Study of plant community
 - c. Study of plant population
 - d. Study of individual plant
- 45. Endosperm development is absent in which family?
 - a. Lamiaceae
 - b. Santalaceae
 - c. Ranunculaceae
 - d. Trapaceae

46.	Which	family produce com	posite t	ype of endosperm?		
	a.	Loranthaceae				
	b.	Caryophyllaceae				
	c.	Poaceae				
	d.	Asteraceae				
47.	Find th	ne correct match				
	a.	Mustard plant	:	leaves are opposite		
	b.	Guava plant	:	Leaves are alternate		
	c.	Calotropis plant	:	Leaves are alternate		
	d.	Nerium plant	:	Leaves are whorled		
48.	Winge	ed seeds observed in	which p			
	a.	Argemone				
	b.	Calotropis				
	c.	Orchids	`			
	d.	Oroxylon	- 25			
49.	Origin	of Angiosperms tak	es place	during which period/geo		
	a.	Mesozoic era				
	b.	Archaeozoic era				
	c.	Coenozoic era				
	d.	Perozoic era				
50.			e?			
		Striga on Sorghum				
		Orobanche on solar				
		Sapria and Rafflesia	a on tree	es		
	d.					
51.	Wolffi	a, one of smallest an	giosperr	n is mainly characterised	by it's	
	a.	Cluster of leaves				
50		Roots				
52.		is taxon?		Transportation 1		
		Taxonomic unit of				
		Short term for taxor	nomy			
	C.	A group of species				
52				onal rules of nomenclatu	re	
33.		composed telome theo	ry?			
		Campbell Zimmerman				
		Andrews				
		Bower				
	a.	Dowel				

- 54. When a part of fungal mycelium is used in the development of reproductive structure, the organism is called
 - a. Ascarpic
 - b. Holocarpic
 - c. Eucarpic
 - d. None of these
- 55. What is the source of riboflavin?
 - a. Torulopsis
 - b. Saccharomyces yeast
 - c. Ashby yeast
 - d. All yeasts
- Multicellular spore like bodies with thick walls produced by some blue green/Cyanophycean algae are called as
 - a. Monospores
 - b. Nannocytes
 - c. Tetraspores
 - d. Hormospores
- 57. Name the type of lichens appeared first on the bare rocks?
 - a. Foliose
 - b. Fruticose
 - c. Crustose
 - d. (a) and (b)
- 58. Which one of the following algal group shows best origin and evolution of sex?
 - a. Blue green algae
 - b. Brown algae
 - c. Red algae
 - d. Green algae
- 59. A vessel-less piece of stem with prominent sieve tubes may belong to
 - a. Pinus
 - b. Trochodendron
 - c. Eucalyptus
 - d. Grass
- 60. Which one of the following cell types always divides by anticlinal cell division
 - a. Fusiform initial cells
 - b. Phellogen
 - c. Root cap cells
 - d. Protoderm cells

71. Ivalie tile	cell division inhibitors?		
a. Co	Ichicines		
b. Cy	anides and azides		
c. Ch	alones and UV-rays		
d. All	the above		
52. The conce	pt given by Danielli & Davson about the		
known as			
a. Un	it membrane concept		
b. Sar	ndwich model		
c. Flu	id mosaic model		
d. Lip	id model		
3. Ephedrine	the phytochemical is used to cure		
a. Re			
b. As	thma .		
c. Co	ld and cough		
d. All	the above		
670	of biomagnifications of DDT in an aquat level in water may go at fish eating bird		
a. 0.5	The state of the s	Foliose	
b. 5.0			
	0ppm		
d. 25.			
	mmerce is obtained from which plant?		
The second secon	lamus rotung	Blue green algae	
	eca catechu		
	oenix dactylifera		
	troxylon sagu	Cores aluan	
	eeder wants to develop a disease resistant		
should tak	THE RESIDENCE AND ADDRESS OF THE PROPERTY OF T	August 1990 in the second	SERVICE CO.
	bridization		
b. Sel			
c. Mu	itation		
	oduction of crop gel ashivib avewis asqui		
67. A variety	of strain developed by agricultural/ hortic	cultural techniques and us	ually no
	atural population is known as		
	ltivar		
	brid		
10-20-0	sue culture		
c. T18			

- 68. Yeast cell can progress through the cell cycle in about
 - a. 30 minutes
 - b. 60 minutes
 - c. 90 minutes
 - d. 120 minutes
- 69. The Fuelgen negative achromatic area of a chromosome is known as
 - a. Centromere
 - b. Centriole
 - c. Centrosome
 - d. Chromomere
- 70. If a red flowered plant is crossed to a white flowered plant, the hybrid is red flowered. Next the F1 hybrid is cross pollinated to a white flowered plant, what will be the percentage of white flowered plants in the progeny?
 - a. 25%
 - b. 50%
 - c. 75%
 - d. 100%
- 71. Epistasis was studied by Bateson in which plant?
 - a. Pisum sativum (garden pea)
 - b. Mirabilis jalapa (40'clock plant)
 - c. Antirrhinum crontium (Snapdragon)
 - d. Lathyrus odoratus (sweet pea)
- 72. RNA interference is essential for the
 - a. Cell proliferation
 - b. Cell defense
 - c. Cell differentiation
 - d. Micropropagation
- 73. When a pyramidine base is replaced by a purine or vice-versa in the DNA is called as
 - a. Inversion
 - b. Transition
 - c. Transfection
 - d. Transversion
- 74. Nullisomy is represented by
 - a. 2n+1
 - b. 2n-1
 - c. 2n+2
 - d. 2n-2

75. What is	s the ploidy level of Triticum aestivu	call can progress through the c?m	
a.	Diploid		
b.	Haploid		
c.	Hexaploid		
d.	Heteropolyploid		
76. Apomi	ctic embryos in Citrus arise from		
a.	Synergids		
b.	Antipodal cells		
c.	Maternal sporophytic tissue in ovule	Centrosomo	
d.	Diploid egg		
77. Southe	rn blotting is used in molecular prob	ing of because I male because I	
a.	RNA make image becovered entaline		
b.	DNA Synsgong &		
c.	Proteins		
d.	Amino acids		
78. Polynu	cleotide chain can be hydrolysed by	the enzymes called	
a.	Polymerases		
b.	Nucleases Small of		
c.	Proteases		
d.	Ligases		
	fication of gene of interest by using		
a.	0.1milllion times		
b.	1.0million times		
c.	1.0 trillion times		
d.	1.0 billion times		
80. Nuclei	ic acids strongly absorb UV light at		
a.			
b.	260 nm and ni estev-acid no annuq		
c.			
	300 nm		
	e the correct pair among these	Transfection	
	Insulin purification	i. Ion exchange chromatograph	2.5
	Amino acid separators	ii. Thin layer and paper chroma	
C.	Enzymes and immunoglobulins	iii. Affinity chromatography	
	separation	2n-1	
D.	Separation and determination	iv. Gel filtration chromatograph	1y o
	of molecular weight of proteins		

- a. A-i, B-ii, C-iii, D-iv
- b. A-i, B-iv, C-iii, D-ii
- c. A-ii, B-i, C-iii, D-iv
- d. A-ii, B-iv, C-i, D-iii
- 82. Lac Operon model is an example of
 - a. Anabolic pathway
 - b. Regulation pathway
 - c. Catabolic pathway
 - d. Termination pathway
- 83. Lipase enzyme acting on fats by breaking down of
 - a. Peptide bond
 - b. Hydrogen bond
 - c. Ester bond
 - d. Glycosidic bond
- 84. The 18 carbon unsaturated fatty acid with three double bonds is
 - a. Oleic acid
 - b. Linoleic acid
 - c. Arachidonic acid
 - d. Linolenic acid
- 85. Based on Ramachandran plot, it can be said that
 - a. Right handed α helix cannot occur
 - b. Right handed β helix cannot occur
 - c. Left handed β helix cannot occur
 - d. Left handed α helix cannot occur
- 86. The activity of hydrolases during seed germination is controlled by gibberellic, it is released by
 - a. Vacuoles
 - b. Aleurone layer
 - c. Spherosomes
 - d. Lysosomes
- 87. What is the intermediate compound that connects glycolysis and Kreb's cycle?
 - a. Oxalic acid
 - b. Acetyl Co-A
 - c. Pyruvic acid
 - d. Citric acid
- 88. Plastochron is related to
 - a. Leaf development
 - b. Shoot development
 - c. Root development
 - d. Leaf arrangement

a. This condition does not allow ynen to enter the soil b. This condition does not allow the capillary force to work c. Both (a) and (b) d. Anil, B.H. d. Anno de these d. Anabolic pathway a. Charles Darwin b. Mendel c. Bateson d. Wilhelm Johannsen d. Hydrogen bond d. Glycould bond d. Glycould bond d. Glycould bond d. Glycould bond d. Linoleic acid d. Left handed a belix cannot occur a. Right handed a belix cannot occur d. Left handed b helix cannot occur a. Right handed b helix cannot occur d. Left handed b helix cannot occur a. Vacuoles a. Vacuoles d. Left handed b helix cannot occur d. Lyousomes a. Oxalic acid d. Lyousomes c. Spiecresomes d. Left acromentate compound that connects glycolysis and Kreb's coycle? d. Lyousomes a. Oxalic acid d. Lyousomes a. Laft development d. Clyreve caid d. Left brond cavelopment	89. Water logging condition of soil makes it physiologic	cally dry because	
b. This condition does not allow the capital y cate of the capital state	a. This condition does not allow oxygen to enter the soil		
## Activity of hydrolases dring seed germanation is controlled by gibberellic, it is a factor of the search occur. ### Regulation control occur. ### Regulation unsaturated first seed germanation is controlled by gibberellic, it is a factor occur. #### Regulation control occur. #### Regulation unsaturated first seed germanation is controlled by gibberellic, it is a factor occur. ###################################		orce to work	
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d. Glycosidio bond 84. The 18 carbon unsaturated fatty acid with flures double bonds is a. Obic acid b. Linoleic acid c. Arachidonic acid d. Linolenic acid d. Linolenic acid 35. Based on Ramachandran plot, it can be said that a. Right handed a helix cannot occur b. Right handed β helix cannot occur c. Left handed u helix cannot occur d. Left handed u helix cannot occur 86. The activity of hydrolases during seed germination is controlled by gibberellic, it is released by a. Vacuoles c. Spherosomes d. Lysusomes d. Lysusomes 87. What is the intermediate compound that connects glycolysis and Kreb's cycle? a. Oxalic acid b. Acetyl Co-A c. Pyruvic acid d. Chric acid e. Ryout development b. Shoot development c. Root development c. Root development			
84. The 18 carbon unsaturated fatty acid with flures double bonds is b. Linoleic acid c. Arachidonic acid d. Linolenic acid d. Linolenic acid 35. Based on Ramachandran plot, it can be said that a. Right handed a helix cannot occur b. Right handed β helix cannot occur c. Left handed u helix cannot occur d. Left handed u helix cannot occur 86. The activity of hydrolases during seed germunation is controlled by gibberellic, it is released by a. Vacuoles c. Spherosomes d. Lysusomes d. Lysusomes 87. What is the intermediate compound that connects glycolysis and Kreb's cycle? b. Acetyl Co-A c. Pyruvic acid d. Chric acid e. Pyruvic acid d. Chric acid d. Chric acid d. Chric acid e. Rycot development b. Shoot development c. Root development c. Root development			
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