Seat	Total No. of Pages: 16
No.	

## **P.G. Entrance Examination, May - 2023**

				IN.	1.5c. BUTAN	נו	
				Sı	ıb.Code : 58'	71	4
				sday : 09-05-20 o 05.00 p.m.	023		Total Marks: 100
Inst	ructio	ns:	1) 2) 3) 4) 5)	Each question Answers sho darkening the Follow the ins	appropriate opti structions given o	on on	
1)	The	Latir	ı teri	m "Viron" me	ans		
	A)	Anti	dote		В	)	Poison
	C)	Hor	mone	e	D	)	Chemical
2)	The	rod-c	or cy	lindrical shap	ed bacteria are	C	alled
	A)	Baci	lli		В	)	Cocci
	C)	Vibr	io		D	)	Pleomorphic
3)	Can	nada i	balsa	am is obtained	d from		_•
	A)	Ros	e		В	)	Cycas
	C)	Gne	tum		D	))	Abies
4)	The	func	tion	of Nostoc he	terocyst is		
	A)	$N_2$ fi	ixatio	on	В	)	Sulpher fixation
	C)	Lipi	d fix	ation	D	)	Phosphorous fixation

5)	The process of soil formation from parent rock is called as							
	A)	Decomposition	B)	Accumulation				
	C)	Hardening	D)	Weathering				
6)	Con	nmunity ecology is study of	•					
	A)	Individual	B)	Organism				
	C)	Population	D)	Only Plant				
7)	Sela	Selaginella produces types of spores.						
	A)	Two	B)	Three				
	C)	Four	D)	Five				
8)	In Bryophytes is a male reproductive organ.							
	A)	Anther	B)	Antheridium				
	C)	Archegonium	D)	Carpel				
9)	Glo	riosa superba is belongs to the fan	nily _	·				
	A)	Caesalpiniaceae	B)	Solanaceae				
	C)	Nyctanginaceae	D)	Liliaceae				
10)	The	Indian Botanical Garden was estab	olishe	d by				
	A)	J.D. Hooker	B)	Robert Kyd				
	C)	Robert Wallich	D)	J. Biswas				
11)	In p	plants gametophytic plant body is all	lways	·				
	A)	Haploid	B)	Diploid				
	C)	Polyploid	D)	Tetraploid				

12)	The stalk of ovule attached to the placenta is called				
	A)	Helium	B)	Raphe	
	C)	Nucellus	D)	Funicle	
13)	_	process of formation of seeds without as	out fe	ertilization in flowering plants is	
	A)	Budding	B)	Apomixis	
	C)	Sporulation	D)	Somatic hybridization	
14)	Dur	ing day time starch is converted i	in to	glucose phosphate by enzyme	
	A)	Phosphatase	B)	Carboxylase	
	C)	Phosphorylase	D)	Catalase	
15)	Whi	ich type of meristem is responsible t	for pr	imary growth?	
	A)	Apical meristem	B)	Lateral meristem	
	C)	Vascular meristem	D)	Cambium meristem	
16)	Cas	parian is the characteristics of			
	A)	Cortex	B)	Endodermis	
	C)	Pericycle	D)	Pith	
17)	Gly	colysis takes place in			
	A)	Cytoplasm	B)	Chloroplast	
	C)	Ribosome	D)	Mitochondria	

18)	3) is an example of aerobic bacteria.				
	A)	Azotobacter	B)	Yeast	
	C)	Riccia	D)	Penicillium	
19)	In s	eeds food material is stored in		_•	
	A)	Embryo	B)	Seed coat	
	C)	Cotyledons	D)	Epithelial layer	
20)	The	endosperms is rich in proteins and	l is ca	lled as	
	A)	Aleurone	B)	Lipids	
	C)	Carbohydrates	D)	Sugar	
21)	Wh	at causes male sterility in plants?			
<i>21)</i>		Genetic factors	B)	Environmental factors	
	ŕ		,		
	<b>C</b> )	Nutritional deficiencies	D)	All of the above	
22)	Wha	at is the primary goal of plant breedi	ing?		
	A)	To reduce genetic diversity			
	B)	To increase genetic diversity			
	C)	To improve the quality of the crop	)		
	D)	To prevent the development of nev	w cro	p varieties	
23)	The	point mutation involves			
,	A)	Deletion	 B)	Insertion	
	C)	Change in single base pair	D)		

24)	) What is the purpose of selecting parent plants in plant breeding?				
	A)	To increase genetic variation			
	B)	To decrease genetic variation			
	C)	To improve the quality of the offsp	oring		
	D)	To reduce the number of offsping			
25)	Rap	hanobrassica is example of			
	A)	Autopolyploidy	B)	Haploidy	
	C)	Allopolyploidy	D)	Diploidy	
26)	Who	en two or more genes interact to con	itrol a	single trait, it is called	
	A)	Epistasis	B)	Pleiotropy	
	C)	Co-dominance	D)	Incomplete dominance	
27)	The	size, shape and morphology of chr	omos	omes of an organism constitute	
			D)		
	,	Phenotype	B)	Genotype	
	C)	Karyotype	D)	All the above	
28)	The	interchange of parts between non-	homo	ologous chromosomes is called	
	A)	Duplication	B)	Translocation	
	C)	Inversion	D)	Deletion	

29)		is an example of a physical mutagenic agent.							
	A)	Formaldehyde	B)	Diphenyl amine					
	C)	UV radiation	D)	Alcohol					
30)	Exti	ra nuclear inheritance commonly oc	cur ii	n					
	A)	Nucleus	B)	Nucleolus					
	C)	Cell membrane	D)	Plastids					
31)	Cap	sid of viral genome is made up of							
	A)	Lipid coat	B)	Carbohydrate coat					
	C)	Protein coat	D)	Starch coat					
32)		process which allows growing the n	nicro	organisms in laboratory is called					
		Incubation	B)	Inoculation					
	C)	Isolation	D)	Fixation					
33)	The	transfer of genes from one cell to a	ınoth	er is called					
	A)	Transduction	B)	Conjugation					
	C)	Transformation	D)	Transmission					
34)	Mol	lasses is presently used for product	ion o	of					
	A)	Alcohol	B)	Antibiotic					
	C)	Lactic acid	D)	Citric acid					
35)	A b	iocontrol agent used against plant d	iseas	es is					
	A)	Trichoderma	B)	Bacillus thuringiensis					
	C)	Glomus	D)	Buculovirus					

36) Plant diseases caused by living organisms are called as			re called as	
	A)	Biotic diseases	B)	A biotic diseases
	C)	Non-infectious diseases	D)	Infectious diseases
37)	Bac	terial disease was first reported by		
	A)	Cark Lewis	B)	Sir Edwin John Butler
	C)	Heinrich Antol de Bary	D)	Thomas J. Burrill
38)	Cus	cuta reflexa is		
	A)	Partial stem parasite	B)	Total stem parasite
	C)	Partial root parasites	D)	Total root parasite
39)	Mus	shroom produces		
	A)	Ascospores	B)	Conidiospores
	C)	Basidiospores	D)	Teleutospores
40)		is poisonous mushroom can ca	use d	eath.
	A)	Pleurotussajor caju	B)	Amanita muscaria
	C)	Agaricus bisporus	D)	Morchella spp.
41)	Mus	shroom cultivation technology is de	velop	ed atNew Delhi.
	A)	IARI	B)	UGC
	C)	MOEF	D)	DST
42)	Ext	ra chromosomal DNA in bacteria is	calle	d
	A)	Nucleoid	B)	Chromosome
	C)	Plasmid	D)	Telomere

12)	Ela	otron microscopo was first dovalor	and by	<b>1</b> 2.
43)	A)	ctron microscope was first develop Dong	B)	E. Ruska & M. Knoll
		Russel		
	C)	Russei	D)	Mayer
44)	Col	orimeter operates inlight.		
,	A)	Infrared	B)	Visible
	<b>C</b> )	Invisible	D)	Blue and red
	,		,	
45)	End	loplasmic reticulum is absent in	on	ıly.
	A)	Prokaryotes	B)	Eukaryotes
	C)	Plant cell	D)	Animal cell
46)	Pol	ymorphism is characteristic feature	of	
	A)	Chloroplast	B)	Lysosomes
	C)	Ribosomes	D)	Mitochondria
47)	Flui	id-mosaic model of cell membrane	was	described by .
- /	A)		B)	
	C)	Singer-Nicholson	D)	Robertson-Davson
19)	Lia	ht microscopo is also known as		
40)		ht microscope is also known as		0.4:1:
		Electron microscope		Optical microscope
	<b>C</b> )	Fluorescence microscope	D)	Scanning microscope
49)	The	replication of nuclear DNA occur	s in _	·
	A)	G <sub>1</sub> -phase	B)	G <sub>2</sub> -phase
	C)	M-phase	D)	S-phase

50)	Enz	yme catalase activity found in	_orga	inelles.
	A)	Peroxisomes	B)	Glyoxysomes
	C)	Dictyosomes	D)	Ribosomes
51)		is referred as father of 'Pomole	ogy'.	
	A)	Charles Dowing	B)	Sir Dalton Hooker
	C)	Carl Linnaeus	D)	Thophrastus
52)	Afri	can Daisy is common name for	·	
	A)	Rose	B)	Marigold
	C)	Gerbera	D)	Jasmine
53)	Stuc	ly of cultivation of tress is referred	l as	
	A)	Floriculture	B)	Arboriculture
	C)	Viticulture	D)	Sericulture
54)	The	plants grown for their attractive le	aves a	re called as
	A)	Flowering	B)	Foliage
	C)	Aarches	D)	Avenue
55)	Beri	muda grass is commonly used in p	repara	ation of
,	A)	-	B)	Edges
	C)	Lawns	D)	Cut greens

56)	Jasmine is an example of							
	A)	Loose flowers	B)	Cut flowers				
	C)	Cut greens	D)	Dried flowers				
57)	Mu	ghal garden is situated at						
	A)	Mysore	B)	Delhi				
	C)	Kolkatta	D)	Lucknow				
58)	Nec	erosis in Rose is due to defic	iency	7.				
	A)	Iron	B)	Boron				
	C)	Sodium	D)	Pottasium				
59)	Des	igning of outdoor and public space	s is c	alled				
	A)	Landscaping	B)	Indoor gardening				
	C)	Floriculture	D)	Hedges				
60)	Marigold is native of							
	A)	China	B)	U.S.A.				
	C)	South Africa	D)	Australia				
61)		soil is most suitable for nurse	y.					
	A)	Loamy and sandy	B)	Black cotton				
	C)	Regur	D)	Rocky				
62)	Am	ylose and amylopectin are the two	comp	onents of				
	A)	Cellulose	B)	Glycogen				
	C)	Inulin	D)	Starch				

63)		is an example of oligosaccha	rides	
	A)	Sucrose	B)	Starch
	C)	Cellulose	D)	Glucose
64)	Plar	nt triglyceride contains a large proport	ion o	of unsaturated acids like
	A)	Linoleic acid	B)	Palmitic acid
	C)	Steric acid	D)	Acetic acid
65)	_	general, unsaturated fatty acids have y acids.		melting point than saturated
	A)	Higher	B)	Lower
	C)	Medium	D)	Same
66)	The	general structure of all amino acids	s is sa	ame except for
	A)	Lysine	B)	Glycine
	C)	Proline	D)	Alanine
67)		is an example of simple protein	ns.	
	A)	Glycoprotein	B)	Albumin
	C)	Phosphoprotein	D)	Lipoprotein
68)	Left	t handed DNA is called as		
	A)	B-DNA	B)	Z-DNA
	C)	C-DNA	D)	A-DNA
69)	DN.	A as an acidic substance present in	the	nucleus was first identified by
	A)	Meischer	B)	Watson and Crick
	C)	Chargaff	D)	Wilkins and Franklin

70)		is a start or initiation codon in protein synthesis.				
	A)	UGA	B)	UAA		
	C)	AUG	D)	UAG		
71)	The	The first Bioinformatics database was created by				
	A)	Margaret Dayhoff	B)	Pearson		
	C)	Richard Durbin	D)	Michael J. Dunn		
72)	is a sequence alignment tool provided by NCBI.					
	A)	Chim	B)	BLAST		
	C)	FASTA	D)	Clustal W		
73)	The term variance was first used by					
	A)	R. A. Fisher	B)	Karle Person		
	C)	Gossett	D)	A.R. Fisher		
74)	is not a measures of central tendency.					
	A)	Mean	B)	Mode		
	C)	Median	D)	Standard Deviation		
75)	Clo	Cloves are native to, the Spice Islands of Indonesia.				
	A)	North Moluccas	B)	Netherland		
	C)	India	D)	China		
76)	due to its active compound piperine may have powerful antioxidant					
		vity.	D)	Cla		
	A)	Turmeric	B)	Clove		
	C)	Chili	D)	Black pepper		
77)		crop is called poor man meat.				
	A)	Green gram	B)	Black gram		
	C)	Pigeon pea	D)	Soybean		

78)	Area and production of Horse gram in India is highest in					
	A)	Karnataka	B)	Odisha		
	C)	Maharashtra	D)	M.P.		
79)	The heading of column is known as					
	A)	Stub	B)	Caption		
	C)	Foot note	D)	Head note		
80)	Which of the following DNA technology is used for the amplification of DNA in vitro?					
	A)	Polymerase Chain Reaction	B)	Restriction Analysis		
	C)	Northern blot	D)	Southern blot		
81)	Restriction Endonuclease isenzymes.					
	A)	Bacterial	B)	Viral		
	C)	Fungal	D)	Algal		
82)	Which of the following enzyme is necessary to make accurate copies of vector DNA?					
	A)	RNA polymerase	B)	DNA polymerase		
	C)	DNA ligase	D)	Endonuclease		
83)	Which of the following technique is used in DNA finger printing?					
	A)	Western blotting	B)	Southern blotting		
	C)	Northern blotting	D)	Eastern blotting		
84)	The ability of single cells to divide and produce all differentiated cells in the entity is called					
	A)	Totipotency	B)	Multipotent		
	C)	Pluripotent	D)	Unipotent		
85)	medium is commonly used in tissue culture technique.					
	A)	PDA	B)	Czapek		
	C)	MS	D)	Agar - Agar		

86)	Petrified plant organs of roughly spherical shape are known as							
	A)	Impression	B)	Compression				
	C)	Amber	D)	Coal Balls				
87)	era is known as 'Age of Angiosperms.							
	A)	Paleozoic	B)	Mesozoic				
	C)	Coenozoic	D)	Archezoic				
88)	In Legumesis a symbiotic nitrogen Fixer.							
	A)	Rhizobium	B)	Alternaria				
	C)	TMV	D)	Mycobacterium				
89)	Azo	Azotobacter strains are sold under the name						
	A)	Azotomycin	B)	Azotobacterian				
	C)	Azocyanin	D)	Azostrepsin				
90)		is a medical system primarily practiced in India.						
ŕ	A)	Ayurveda	B)	Unani and Yoga				
	C)	Naturopathy	D)	Homoeopathy				
91)	Blu	Blue green algae fix the atmospheric nitrogen by the enzyme						
,	A)			Nitrogenase				
	C)	Protease	D)	Amylase				
92)	Amla is the Main source of							
	A)	Vitamin C	B)	Vitamin B				
	C)	Vitamin A	D)	Vitamin D				
93)	Emblica officinalis belongs to the family							
,	A)	Labiatae	B)					
	C)	Malvaceae	D)	Euphorbiaceae				
94)	Usually hair shampoo is obtained from							
	A)	Acacia concinn	B)	Lawsonia inermis				
	C)	Santalum album	D)	Mangifera indica				

95)	Perfume is obtained from					
	A)	Acacia concinna	B)	Lawsonia inermis		
	C)	Santalum album	D)	Jasminum sambac		
96)	Vitamin C, also known as					
	A)	Ascorbic acid	B)	Butanol		
	C)	Gibberellic acid	D)	Fumaric acid		
97)	Incorporation of impurities in genuine or standard drug is known as					
	A)	Adulteration	B)	Filtration		
	C)	Sterilization	D)	Pharmacognosy		
98)		symbiotic relationship between fur Parasitism Helotism	ngi ar B) D)	Mycorrhiza  Etiology		
	C)	Helotisiii	D)	Euology		
99)	In VAM fungi bladders like structures are called as					
	A)	Vesicles	B)	Arbuscules		
	C)	Conodiophores	D)	Chlamidospores		
100)	Crotolaria juncea L. is commonly used as					
	A)	Green manure	B)	Compost		
	C)	Vermicompost	D)	All of the above		

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## Rough Work