PLANT SCIENCES (Code-02)

1.	The cause of the great Bengal Famine	was	
	(A) Blast of rice (C) Rust of wheat	(B (D) Brown spot of Rice
30	Chloroplast contains disc like membra	anou	s structures arranged in a stack is called
A.	(A) Cisternae (C) Stroma	(B)	
3.	The causal organism of bunchy top of	bana	ana is transmitted by:
	(A) Pentalonia nigronervosa (C) Lipaphis erisimi	(B) (D)	
4.	Khaira disease is associated with which	h cro	op?
	(A) Wheat (C) Barley	(B) (D)	
5.	Virus Mediated transfer of genetic mate	erial	from one bacterial cell to another is:
	(A) Transduction (C) Conjugation	(B) (D)	Transformation Reverse transcription
6.	Seed plot technique is followed in		
	(A) Wheat (C) Potato		Bajra Paddy
7.0	Southern corn blight epidemic of make	was	due to susceptibility of
	(A) T-cytoplasm (C) HT-cytoplasm	(B) (D)	A-cytoplasm D-cytoplasm
8.	Source of rust resistance sene in whea	t is	
	(A) Triticum monococco (C) Triticum timophievi	(B) (D)	Aegilops speltoides Triticum durum
9.	Cell wall lacking organism is		
	(A) Mycoplasma (C) Fungi	(B) (D)	Bacteria Virus
10.	Electron microscope was discovered by	,	
	(A) Anton von Leuvenhooke(C) Korenberg	(B) (D)	Knoll and Ruska Robert Hooke
1.	Causal organism of first bacterial diseaby T.J. Burill) is	ase, 1	fire blight of apple and pear (discovered
(((A) Erwinia caratovora (B) Erwinia amylovora (C) Erwinia atroseptica (D) Erwinia arodiae 		(Alcovered

	In gram staining the alcohol acts on		an i
12.	I Taichold acids	(B)	Peptidoglycan
	Doringsiii	(D)	Membrane lipids
	Technique of potato is used i	to pro	Pduce
13	(A) Large sized to local Insect-free seeds	(D)	Nematode free seeds Virus free seeds
	Cotton leaf curl virus is transmitted by		
14	(A) Mite	(B)	White fly
	(C) Aprilu		Plant hopper
15.	Which of the following spores of Pucci	nia aı	re considered perfect state spores
1	(A) Teleutospores (C) Aeciospores	(B) (D)	Uredospores Basidiospores
16.	Coenocytic fungal hyphae are		
,	(A) Non septate		Keeper and the second s
	(B) Septate with uninucleate cells(C) Septate with multinucleate cells		
	(C) Septate with multinucleate cells(D) None of these		
17.	Black tip of mango is caused due to the	a dafi	ciancy of
17.	(A) Zinc	(B)	Iron_
1	(C) Boron .	(D)	Oxide +
18.	Which is the best breeding method unadapted germplasm?	to	trusfer disease resistance genes from
	(A) Bulk method	S	Pedigree method
	(C) Back cross method	(D)	Mass selection
19.	Pigeon pea sterility mosaic vilus is trai	nsmit	ted by
	(A) Aphid		Mite
	(C) White fly	(D)	Plant hopper
20.	The bacterial cells are peritrichously fla	agella	ated in
	(A) Agrobacterium	(B)	Erwinia
	(C) Xanthomonas	(D)	Pseudomonas
21.	The perfect stage of Rhizoctonia solan	i is	
	(A) Glomerella tucumononcia	(B)	Thanatephorus cucumeris
	(9) Magnaporthe grisea	(D)	Cochliobolus miyabeanus
22.	Who proved that virus could pass thr	ough	filters with pores small enough to retain
	(A) Stanley		
	(C) Mayer	(B) (D)	
1			

23	. Арр	lication of potash increases:		
1	(A)	Disease resistance in plants Frost resistance in plants	(B (D	
24	. Syst	temic fungicides were first discove	red	by
	(A)	Knoll and Ruska Leeuwenhoek	(B) (D	Von Schmelling and M. Kulka
25	. Bert	peries vulgaris is the alternate host	of	
	(A) (C)	Yellow rust of wheat Black rust of wheat	(B) (D)	
26.	Loos	se smut of wheat can be controlled	by	
	` '	Seed treatment with Vitavax Soil application of Vitavax	(B) (D)	
27.	Ug 9	9 is a race of which of the following	g rus	st pathogen?
		Puccinia graminis tritici Puccinia striiformis	(B) (D)	
28.	Leaf	curl of cotton can be managed by		generality of the state of the
	S	Control of insect vector Follow clean cultivation	(B) (D)	Use of resistant varieties All of the above
29.	Whip	smut of sugarcane is caused by		Complete the second sec
		Ustilago nuda Urocystisagrophri	(6)	Ustilago hordei Ustilago scitaminea
30.	Who	discovered Bordeaux Mixture	11-	
		H.A. de Bary E.J. Butler	(B) (D)	P.M.A. Millardet Biffen
31.	"Funç	gi and Disease in Plants' was writt	en b	v
	(A) E	B.B. Mundkur E. J. Butler		K. C. Mehta R. S. Singh
32.	Agrob	pacterium is a		
	(A) G (C) B	Gram negative bacterium acteria lacking cell wall	(B) (D)	Gram positive bacterium None of these
33.	Exoba	sidium vexans belongs to		
		asidiomycetes ygomycetes	(B) (D)	Ascomycetes Oomycetes
34.	Rice to	ungro disease is transmitted by		
	(A) A	and the second s	(B) (D)	White fly
			/	Nematode

3	5. Phyllody is the	
	 (A) Development of floral organs in to (B) Development of organs in an une (C) Over development of colour 	leaf like structures expected location
	(D) Under development of colour	
36		and the same of th
1	(A) Higher nucleic acid percentage	ad laws
	(a) Simple Protection and Inc.	Wer nucleic acid
	(C) Lipids (D) None of the above	- Coloic Acid
37.	Indian Phytopathological Society w	as established by
	(A) N.O.IVIETILA	(B) J.F.Dastur
	(C) B.B.Mundkur	(D) E.J.Butler
38.	The fungi included in order Porona	
	(A) Smut	sporales cause the plant diseases known as
	(C) Powdery mildew	(B) Damping off
39.		(D) Downy mildew
35.	the strain of the strains of the str	nitted by
	(A) Aphids (C) Whiteflies	(B) Leafhopper
	(O) Writtenies	(D) Mites
40.	Cauliflower mosaic virus is an	
	(A) dsDNA	(B) SSANA
	(C) dsRNA	(D) SONA
41.	Breeding method to improve a spec	
,	(A) Pedigree method	
	(C) SSD method	(B) Bulk method
42.		(D) Back cross method
•	_ sandacijesis is tije stridikoj	N91H+0/
	(A) Soil formation (C) Soil structure ((B) Rock formation
	(C) Soil structure formation	(D) Study of fertility status
43.	shoot protein content is found in	
	(A) Soyabean	(B) Gram
	(C) Rajmah	(D) Mungbean
44.	Which test is used for comparing tw	
	(A) F – test	^o means from independent samples?
	(C) Z - test	(B) t – test
		(D) Chi – square test
45.	Which one of the following is a Khar	if crop?
	(A) Pearl millet	(B) Lentil
	(C) Mustard	(D) Wheat

	L hone	100000		
46.	Which one of the following is used to	test th	e goodness-of-fit of	a distribution?
	(A) Normal test	(B) (D)	t-test F-test	
	(C) Chi-square test	, ,		
47.	Conservation Agriculture' forms a con	mpone	nt of	
	(A) Sustainable agriculture (C) Intensive agriculture	(B) (D)	Extensive agriculture Organic farming	
40	Promise in the Land and aft	or the		
48.	Brassica juncea has been evolved aft	er me	nybridization betweel	n
	 (A) B.nigra and B.campestris (B) B.nigra and B.oleracea (C) B.campestris and B.oleracea (D) B.campestris and B.carinata 			en a servición de la servición
		73		
49.	Which organelle is found with half un	it mem	brane?	and Lagrett gitte
	(A) Oleosome (C) Glyoxisome	(B) (D)	Ribosome Peroxisome	your specification.
50.	Suicidal germination takes place in			
	(A) Dodder	(B)	Strian	
	(C) Loranthus	(B) (D)	Striga Dendroph hee ralcate	in to the second of the second
				ing the state of t
51.	Granite, an important rock, is classific	ed as	\sim	
	(A) Igneous rock (C) Sedimentary rock	(B) (D)	Metamorphic rock	Mary Market (1)
52.	Blind tillage refers to		in the second party	
	(A) Summer ploughing(B) Hoeing in standing crop rows(C) Primary tillage(D) Hoeing before germination	il.		
53.	Cell linkage theory was proposed by			
0	(A) Schlieden and Schlyan	15		
	(B) Ņagali			
	(C) Hooke			of all the acceptance of
	(D) Linnaeus			
54.	Which of the following is 5C sugar?			
	(A) Galactose	(B)	Ribose	
	(C) Glucose	(D)	Mannose	
55	During seed development, if the epidermis of the outer intergument, the	mecha	nical tissue develo	ops from the outer
y 1	(A) Exotestal	2002	10.000000000000000000000000000000000000	
	(B) Mesotestal			
	(C) Endotestal	7		
	(D) Exotegmic			

			use of	nitrogenous bases of
5(6. Who found that a peculiar regularit	y exis	sts in the ratios of	
٥,	double stranded DNA?		· ·	
	Mateon and Francis Crick			
	(A) James Watson and (B) Rosalind Franklin			
	(D) Waclaw Szybalski			કર્માન કરીકનું હતા હું
	(b) waster,		t pomologou	s chromosomes takes
57	Crossing over between non - sister of place during	nrom	atids of nomoreges	
		(D)	Pachytene	
	(A) Leptotene	(D)	Pachyterio	
	(C) Diplotene	(0)	Zygotene	
58.	Amylopectin is a carbohydrate which i	is		
18	(A) Monosaccharide	(B)	Disaccharide	
	(C) Oligosaccharide	(D)		
			(City Care	
59 .	The megaspore mother cell is			
	(A) Haploid	(B)	Diploid	
	(C) Tetraploid	(D)		
60.	During photosynthesis, oxygen is gen	erated	d from	
	(A) Carbon dioxide only			
	(B) Water only			
	(C) Both water and Carbon dioxide		~O'	
	(D) Phosphogycerate			
			ce.com	
61.	Group of salts found in sodic soils		60	
	(A) $Na_2CO_3 + Na_2SO_4$	5		
	(B) Na ₂ CO ₃ + NaHCO ₃	0		
	(C) NaCl +Na ₂ CO ₃	C	Marie Company	
	(D) NaCl + Na ₂ SO ₄ • •			
)		
62,	Major micronutrient deficiency in tobac	cco is	due to	*
	(A) Boron	(B)	Manganese	
	(C) Copper	(D)	Molybdenum	
63.	Which of the following does not apply t	to SRI	method of paddy cu	Iltivation2
	(A) Reduced water application		,	intration:
	B) Reduced plant density			
	C) Increased application of chemical fert	ilizers		
	D) Reduced age of seedlings			
· · · · · · · · · · · · · · · · · · ·	b) Reduced age of seedlings	, V		
4. P	hotoperiodism is			
The same		aht.		
(/	A) Bending of shoot towards source of light	alle - ;		
(E				
(C	Movement of chloroplast in cell in resp	ponse	to light	
(D) Effect of light on chlorophyll synthesis			

65.	Which of the following is commonly re	eferred to as muriate of make to
	(B) Potassium Sulphide (C) Potassium chloride (D) DAP	
66.	The enzyme responsible for the fixatio	on of CO in mesophyll cells of C-4 plants is
	 (A) Malic enzyme (B) Phosphoenol pyruvate carboxylase (C) Phosphoenol pyruvate (D) RuBP carboxylase 	The second secon
67.	Seedless banana is an	
	(A) Autotriploid (C) Allotriploid	(B) Autotetraploid (D) Allotetraploid
68.	Variation in diversity among plant pop	pulation is influenced most by
	 (A) Breeding systems (B) Geographic range (C) Mode of reproduction (D) Taxonomic status 	Settlements of the Conference of Conference of the Conference of t
69.	The cDNA libraries can be prepared by	/ isolating
	(A) tRNA (C) DNA	(B) m(N) (D) DNA
70.	Oxysomes occurs in	
	(A) Plastids (C) Endoplasmic reticulum	(B) Golgi bodies (D) Mitochondria
71.	First pigeonpea hybrid developed thro	ough GMS in India
	(A) IPCH – 8 (C) IHCP – 8	(B) ICPH - 8 (D) IHPC - 8
72.	First cotton hybrid developed in the w	orld
	(A) H 8 (C) H 4	(B) H 6 (D) Varaluxmi
73.	Which of the following is mainly respo	onsible for eutrophication?
	(A) Phosphate (C) Carbonate	(B) Nitrate (D) Sulphate
74.	The conversion of CO ₂ and H ₂ O into or	rganic compounds using energy from light is
	(A) Photorespiration(B) Fermentation(C) Glycolysis(D) Photosynthesis	
		no Plant Science

	won is directly involved in W	nich	of the following.
75.	Nick transition is directly involved in w		
1	(A) RNA to DNA		
	DNA to KINA		•
	ICI DNA to DNA		
	(D) RNA to protein		
	The tag colour of foundation seed is		
76.	and the second of	(B)	Blue
	(A) Black	(D)	Yellow
	(C) White		
77	Aromatic rice variety Texmati is patento	ed by	
77.		(B)	Calgene
	(A) Mahyco (C) Rice tech	(D)	Pioneer hybrid
78.	Square root of variance is		
	(A) Coefficient of variation		The state of the s
	(B) Standard deviation		
	(C) Mean		
	(D) Median		
	1411 let ef the following mothed is an ul	4i	a source of creaming genetic variation?
79.			e source of creating genetic variation?
	(A) Hybridization	(B)	Selection
	(C) Introduction	(D)	Mutation
80.	Backcross method of selection is used	l for i	mproving traits which is
	(A) Oligogenic		
	(B) Polygenic	4	The same same same same same same same sam
	(C) Disease resistance	D	
	(D) Test with high heritability		NAME OF THE PARTY
04	Besterer gans is legated in	ク	
81.	Restorer gene is located in	7 113 4	
	(A) Nucleus		A Section of the Sect
	(B) Cytoplasm (C) Both Nucleus and Cytoplasm		
	(D) Mitochondria		William Control of the Control of th
82.	Southern corn blight epidemic of maize	e was	due to susceptibility of
	(A) T-cytoplasm	(B)	A-cytoplasm
	(C) HT-cytoplasm	(D)	D-cytoplasm
03	Sauras of must registance many in subse		
83.	Source of rust resistance gene in whea	100.00	
	(A) Triticum monococcus	(B)	Aegilops speltoides
	(C) Triticum timopheevi	(U)	Triticum durum
84.	Indian Journal of Agriculture Science is	s puh	lished by
	(A) UPCAR	- 100	
	(C) CISR	(D)	ICAR NBRI
	(0) 0.01		NON
1.78			

8	85. Most important organelle during germination oil seeds	which is characteristics of plant cell in
	(A) Peroxisomes (B) D (C) Spherosomes (D) G	Pietysomes Blyoxisomes
86	86. Which one of the following micro-organ solubilisation	
		hizobium AM fungi
87	Pri Oi a Solution is necleased	one unit from 5 to 4 the [H ⁺] ion
	(A) Increase(B) Decrease(C) No change(D) None of these	
88.	(A) ICAR (B) Commission for Agriculture Cost and Prices (C) Ministry of Commerce and Industry (D) Forward Market cost and price Commission	
89.	3. Land races are	
	(A) Advanced strains(B) Hybrid varieties(C) Local varieties(D) All of these	
90.	. In India, normally how many generation ystem	a good are produce o
	(A) 1 (C) 3 (B) 2 (D) 4	r seed are produce ?
91.	. Liquid N₂ has a temperature	- Adem with the spicease revery last move
	(A) - 196°C (C) - 176°C (B) - (D) -	
92.	Microbe involved in Fibre retting	
		acillus subtilis actobacillus sp.
93.	Barrier isolation is permitted in seed production	n of
	(A) Rice (B) Hy (C) Sunflower (D) Ca	ybrid rice astor
94.	Nipping in bajra hybrid seed production genera	ally carried out
	(A) To enhance tillering capacity (B) To	achieve synchrony of flowering one of these
	[11]	
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	95.	In 1	three line m	ethod of certific rent, which pare	nt has to	be s	shown fire	st	arciit	nowers c	ome e	earner
	1	tha	U lattrais			(B)	B-Line					
			A-Line R-Line			,	A and B					
		(C)	15.00	area (ha) that ca	n be offe	red f	for seed o	ertific	ation	ie		
	96.	Th	e maximum .	alou		(D)	10	,011110	ation	15		
		(A)	5			(B) (D)	10 '` 25					
		(C)	15			. ,						
	07	Hva	roscopic eq	uilibrium curve	s is also	calle	ed as					
	97.		Absorbtion !	sotherms		(B)	Adsorbtic	on isoth	nerms			
		(C)	Absorbtion i	sobars		(D)	Adsorbtic					
	98.	Deve gam	elopment c etophyte is	of sporophyte called	without	fer	tilization	from	the	vegetativ	e ce	ells of
	12.04	(A)	Zygospory			(B)	Aplenosp	orv.				
	(C)	Aposory			(D)	Apogamy	-				
	99. T	'arai	developmo	ent corporation	Was osto	hlin		d r	10. 1	mig and its	10.00	
			1969	, Jordan	was esta			r work	d ban	k assistai	ice in	
	(,	971			(B) (D)	1970 1973					
		•					1973	2				
	100. Tr	ie o	uter most	wall of the ovar	y is calle	d		11				
	(A		ericarp			(B)	Perisoe) `				
	(C) -	ruit wall	,		(D)	Perial #					
	101. Th	e te	rm Scutel	um refers to			.9.					
	(A			cellus of pepper	soods .	1	J					
	(B	S	ingle cotyle	edon of cereals	. O	1.						
	(C) 0	utgrowth o	f pulse seeds	7.0							
	(D)) A	ril of Casto	r								
1	102. Th	le n	lante dove	donad the			_					
	_ re	ferra	ed to	eloped the ne	nanism t	o d	isperse t	heir o	wn se	eds by I	olasti	cally is
			utochory							Harry C.		Ji,l
	(C) A	nemochory			(B)	Holochor	•				
			Acres			(D)	Entomoc	hory				
	105. IV	סנווט	graph is u	seful to predict								
	5 (A) G	ermination	percentage		(B)	Seed via	hility				
	10	, 0	eea vigour	10 × 10 × 11		(D)	Spod sta	rage	est		100	
	104. Fo	r w	hich syste	m of seed proc	luction 44				001			
	/ ce	rtifi	cate is	m of seed proc		ie g	row out	test is	a pre	erequisite	for g	grant of
	(A)		GIVIS syste	m	43						· ·	
	(C)		MS system			(B)	GMS sys					
1	05. A	arie	ety that ha	S to be register	od	(D)	CHAs Sy	stem				
	/Δ1	E	xtinct varie	s to be register ties	ed under	plai	nt variety	prote	ction	act is ref	erred	to ac
	(C)	E	kample Valle	rieties		(B)	Candida	te varie	atipe	0 101	Sileu	io as
	(~)	***** /			1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(D)	Reference					
18	Market Programme Control	45 60 (46)	the parties that is a first		X ZEROS ESTADOS							

106	See	ed dormancy due to the factors out	side	the embryo is
100	(A)	Exogenous dormancy Eco-endodormancy	(B)	Endogenous dormancy Conditioned dormancy
	1	•		
107.	In C	ertified class seed production of the	ree l	ine systemline is used in border row
/	(A)	A line	(B)	B line
	(C)	R line	(D)	Pollinated variety
108.	Nine	ety per cent of global cotton produ	ction	covers under species of
		G.arboreum		G hirustum
	(C)	G.barbedence	(D)	G.herbaceum
109.	The in h	name of the chemical, which on s ybrid seed production of rice	prayi	ng will enhance complete panicle exertion
	(A)	Glutamic acid	(B)	Ethanol
	(C)	Lactic acid	(D)	Gibberlic acid
110	Gen	etic purity in the field is controlled	thro	ıah
		Seed testing		Seed sampling
•	. ,	Field inspection		Rougeing _
	, ,			
111.	Нур	o-epigeal germination is seen in		
	(A)	Groundnur	(B)	Lettype
	(C)	Peperomiaperuviana	(D)	Casto
112.	Pale	onology deals with	C	
	(A)	Study of seed	(E)	Study of flower
	(C)	Study of pollen	(D)	Study of pistil
113.		trophoresis is a test useful for		
1	(A)	Differentiating varieties	(B)	High and low vigour seeds
	(C)	Viable and non-viable sees	(D)	Dormant seeds
114.	The	seed control order deals with		
	(A)	Certification		Seed testing
	(C)	Licensing for sale of seed	(D)	Notification
115.	The	cross pollination of bajra favors by		
		Self incompatability	(B)	Protogyny
	(C)	Protoandry	(D)	Heterostyly
16.	Prole	onged rouging operation will not at	fect t	he genetic purity in case of
1	(A)	Self pollinated crop	(B)	Cross pollinated crop
	(C)	Often cross pollinated crop	(D)	Hybrid crops
17.	Synt	hetic seeds have		
	(A)	Zygotic embryo	(B)	Apomictic embryo
, i	(C)	Somatic embryo	(D)	Fertilized embryo
TW-				

118	. Fo	r accuracy of agricultural experime	ents,	what level of probability is acceptable?
	(A) (C)	1% 10%	(E	B) 5% D) 15%
119.	Alb	inism in plants is associated with		
	(A) (C)	Epistatis Dominant lethal	(E	A second
120.	Rec	urrent selection is mostly used in	4	
	(A)	Self pollinated crops Vegetatively propagated crops	(B (D	
121.		al seed of an improved variety is o		
	(C)	Certified seed	(B (D) Nucleus seed) Foundation seed
122.	Cres	scograph is a device used for mea	Surin	a a
	(C)	Wind Speed	(B)	Growth in plants
123.	In fe	rmentation, energy is	1	
	(A)	Liberated Neither liberated nor consumed	(B) (D)	
124. \	Whic	h among the following forms nod		
,	' '/ /	Arachi shypogaea Pisum sativum	(B)	Gesbania rostrata
125. T	he f	ollowing organelles also contain		Glycine max
\'	') L	Endoplasmic reticulum Chloroplast	(B) (D)	Vacuoles
126. T	he fr	uit of rapeseed and mistard plan	(0)	Centrosomes
(A	() C	aryopsis		
(C		bod	(B) (D)	Grain Siliqua
127. Or	ne ha	a-cm of water is equal to		
(A) (C)	10	00 tonnes of water tonnes of water	(B) (D)	100,000 litres of water 10,000 litres of water
128. Wh	nich	of the following is often cross po	Ollina	ted one
(A) (C)	Co	day tton	(B) (D)	Groundnut Maize
129. Und	der s	tress conditions, which amino a	cid is	accum
(A) (C)	Me Pro		(0)	Tryptophan Phenyl alanine
SHOW THE SE	Á			

130.	The	varieties belonging to rice sp	ecies (Oryza	a glaberrima are found in
	(A)	Europe Africa			Asia Latin America
131.	Roo inhil	ts of which of the following bit germination of succeeding	plants g crop?	relea	ase allelopathic chemicals into soil which
		Sorghum Castor		Robert Co.	Sunflower Cotton
132.	Whi	ch form of nitrogen is absorb	ed by	padd	ly under waterlogged conditions?
		NO ₃		(B)	
	(C)	NO ₂			NH ₄
133.	A co	ondition in which pollination ned as	and fe	ertiliz	cation take place in an unopened flower is
	(A) (C)	Homogamy Polygamy		(B) (D)	Apogamy Cleistogamy
134.	In a	cross between two homozyg	gous p	arent	ts, no genetic variation is present in
	and the second section is	F₁ generation F₄ generation			F ₂ generation F ₈ generation
135.		ell or an organism having or npliment of the species is	e chro	mos	ome rair maddition to the normal somation
	(A) (C)	Monosomic Tetrasomic	-1,01		Trisomic Trisomic
136.	A h	omozygous line developed l	oy se?	fertil	lization in a cross pollinated crop is termed
	(A) (C)	Pure line Clone	(2)	(B)	
137.	Me	ndelian population leans			
	(Δ)	Self pollinated population Random mating population		(B (D	
138	. Iso	genic lines are used to deve	lop	4 D	N. Ozmanitos
	(A)	Hybrids Multilines			O) Synthetics
139	. Ex	pression of both the alleles	of a ge	ne in	F ₁ refers to
1	(A) Partial dominance) Co-dominance		([D) None of these
140) In	RNA, nitrogen bases are san	ne as i	n DN	A except
		Uracil instead of Thymine Adenine instead of Guanine		(E	Cytosin instead of Thymine Thymine instead of Adenine

141	The	e following is a naturally occurring g	rowth	ı inhibitor
	(A)	NAA ABA	(B)	GA₃ IAA
142	Car	bohydrates are present in the plasm	alem	ma in the form of
		Starch Hemi-cellulose	(B) (D)	Cellulose Glycolipids and glycoproteins
143	. C41	plant posses which type of leaf anat	omy	
	(A)	Kranz type Waxy type	(B) (D)	Crassulucence type Transparency type
144.	Nan	ne the enzyme which joins the broke	en Di	NA strands
		Ligase Gyrase DNA Polymerase Helicase		
145.	The thei	world food prize-2016 was honour refollowing contribution	red to	Andrade, Mwanga and Low for which of
	(A) (B) (C) (D)	Development of stress resistance variances milk production. Development and implementation of Increased food production.		
Department of the second	(A) (B) (C) (D)	quantity of Co ₂ catalysed by the Rt 10 ¹⁰ tonnes 10 ¹¹ tonnes 10 ¹² tonnes 10 ¹³ tonnes	0	
147.	The	value of respiration quotient in such	ccule	nt plants which shows CARA:
	(A) (C)	Less than one Unity	(B) (D)	More than one Zero
148.	Whe	en a light break is given during a lo	na da	ark period, it promotes flowering in
7	(A) (B) (C) (D)	Short day plant Day neutral plant Long day plant Both (A) and (B)		m period, it promotes flowering in
149.	Cau	se for Pseudo-dominance is		
	(A) (C)	Duplication Inversion	(B) (D)	Deletion Translocation
150.	Sem	igraphic methods for assessing m	orph	
	(A) (C)	Meteroglyph Correlation	(B) (D)	D^2

DIRECTIONS: (Question No. 151 to 160) Cross matching type questions. Each sub-question carries ONE mark. Choose the correct answer (A, B, C, D and E) for each sub-question (i, ii, iii, iv and v) and enter your choice in the circle (by shading with glack/Blue Ball Point Pen) on the OMR- Answer Sheet. For each wrong answer 0.20 marks will be deducted.

(E)

1963

151. Match the following

(i)	Seed act	(A)	1961
(ii)	Seed control order	(B)	1968
(iii)	Seed rules	(C)	1983

(iv) UPOV (D) 1966 (v) NSC

152. Match the following

	Chi Square test	(A)	Independent of origin
	Regression		Mean square deviation
(iii)	Correlation		SD/√n

(iv)Variance (DY Cause and effect relationship Standard error (v) (E) Goodness of fit

153. Match the crops with flowering

(i)	Cleistogamy	(A)	Surflover	
(ii)	Monoecious	(B)	Fapaya	
(iii)	Diecious	(C)	Bajra	
(iv)	Self incompatible	DX	Maize	
(v)	Protogynous	E	Groundnut	

154. Match the following

(i)	Genetic male sterility •	(A)	Onion
(ii)	Cytoplasic male sterility	(B)	Sun Flower
(iii)	Genetic and Cyto Plasmic male sterility	(C)	Red Gram
(iv)	Parthenocarpic Non Viable Seed	(D)	Hybrid Napier
(v)	Non Viable Seed	(E)	Citrus

155. Match the following

Mate	the following	* * * *	
(v)	Pennisetumglaucum	(E)	2n=36
	Cicer arietinum	(D)	2n = 16
(iii)	Vigna mungo	(C)	2n = 18
(ii)	Setaria italica		2n = 22
(i)	Eleusine coracana		2n = 14

156.

(i)	Nullisomic	(A)	2n-1-1
(ii)	Monosomics	(B)	2n+1
	Double monosomics	(C)	2n-2
	Trisomic	(D)	2n+2
	Tetasomic	(E)	2n-1

157. Match the following

- Single seed descent (i)
- Backcrossing (ii)
- Anther culture (iii)
- Bulk sergrant analysis (iv)
- Microsatellites (v)

- Double haploid (A)
- F2 (B)
- RILS (C)
- SSRs (D)
- NILs (E)

158. Match causal agent with disease caused

- (i) Virus
- (ii) Algae
- (iii) Phytoplasma
- Viroid (iv)
- **Fungus** (v)

- Sigatoka of banana (A)
- Little leaf of brinjal (B)
- Potato spindle tuber (C)
- Red rust of mango (D)
- Cotton leaf curl (E)

159. Match the crop with the pathogen

- (i) Rice
- (ii) Wheat
- (iii) Cotton
- Chickpea (iv)
- (v) Sugarcane

- Leifsonia xyli (A)
- (B) Xanthomonas axonopodis pv. Malvacearum
- (C) Ustilaginoidea virens
- Urocystis agropyri (D)
- Botrytis cineraa (E)

160. Match the following

- (i) Rice dwarf
- (ii) Citrus tristeza
- Tomato spotted wilt (iii)
- (iv) Potato virus Y
- (v) Cowpea mosaic

- diolar Tospo virus