Sr. No.	Ques	tion		
	•			
1.	_	final physical product (MPP) where P=product $\Delta P/\Delta X$	etion, a	and X=input, is equal to $\Delta X/\Delta P$
	(A) (C)	P/X	(D)	None of these
2.	In wh	nich relation, an increase or a decrease in production of the other inversely	` /	
	(A) (C)	Supplementary Competitive	(B) (D)	Joint product Complementary
3.	The V	World Trade Organization (WTO) is the succe	essor t	o
	(A)	ITO	(B)	GATT
	(C)	UNCTAD	(D)	IMF
4.	Whic	h of the following is the apex bank for agricu	ltural	credit in India?
	(A)	RBI	(B)	A. SIDBI
	(C)	NABARD	(D)	A. SBI
5.	A dei	mand curve measures		
	(A)	Buyer's willingness to pay	(B)	Actual price a buyer must pay to get the product
	(C)	Difference between a buyer's willingness to pay and the actual price of the product	(D)	All of these
6.	Const	umer surplus is		
	(A)	a buyer's willingness to pay plus the price	(B)	the price of the product minus the buyer's willingness to pay
	(C)	when the buyer's willingness to pay and the price of the product are equal	(D)	a buyer's willingness to pay minus the price
7.	Acco	rding to the law of demand		
	(A)	there is a positive relationship between quantity demanded and price	(B)	as the price rises, demand will shift to the left
	(C)	there is a negative relationship between quantity demanded and price	(D)	as the price rises, demand will shift to the right
8.	Marg	inal utility signifies		
	(A)	utility from first unit	(B)	utility from last unit
	(C)	utility from additional unit	(D)	utility from third unit
9.	Nat (A)	ional Income means Income of the Government	(B)	Money measure of the overall annual flow of goods and services in an
	(C)	Value of the fixed wealth in an economy	(D)	economy Aggregate of the earnings of working class in an economy
10.	Interr	nal rate of return (IRR) is that rate at which N	et Pres	sent value is
	(A)	Positive	(B)	Negative
	(C)	Zero	(D)	None of these

11. The residual left with the farmers after meeting his family consumption, farm requirements, social and religions payments is called as			y consumption, farm	
	(A)	Marketed surplus	(B)	Marketable surplus
	(C)	Producer Surplus	(D)	Consumer Surplus
12.	If the	NPW is zero, then B/C ratio is		
	(A)	>1	(B)	<1
	(C)	= 1	(D)	=0
13.	A mar	rket characterized by large number of sellers	and bu	iyers and homogenous product is known
	(A) (C)	Monopoly Perfect	(B) (D)	Oligopoly Monopolistic
14.	Dema	and for goods which are needed for further pro	oductio	on is called as
	(A)	Derived Demand	(B)	Autonomous demand
	(C)	Direct Demand	(D)	All of these
15.	Which	h one of the following is not a measure to red	uce th	e risk?
	(A)	Diversification	(B)	Hedging
	(C)	Contract sales	(D)	Monoculture
16.	Marg	inal product is		
	(A)	Addition made to total production by the	(B)	Average production per unit of input
	( )	use of an additional input	( )	use
	(C)	Total addition to the production by addition input use	(D)	All of these
17.	In wh	ich layer of the atmosphere there is a tempera	ature ii	nversion?
	(A)	Troposphere	(B)	Stratosphere
	(C)	Mesosphere	(D)	Ionosphere
18.	Which	h layer of the atmosphere has lowest average	tempe	erature?
	(A)	Troposphere	(B)	Stratosphere
	(C)	Mesosphere	(D)	Ionosphere
19.	The v	alue of Environmental lapse rate is given as		
	(A)	- 6.5 °C / km	(B)	+6.5 °C / km
	(C)	5.5 °C / km	(D)	5.0°C / km
20.	Wind	direction is measured as –		
	(A)	From where it comes	(B)	Where it goes
	(C)	It touches the face	(D)	A and C both are correct
21.	Vertic	cal distribution of microclimate is:		
	(A)	$10^{-2}$ to $10^{1}$ m	(B)	$10^{-2}$ to $10^2$ m
	(C)	$10^{-2}$ to $10^3$ m	(D)	$10^{-2}$ to $10^4$ m
22.	Name	the most important weather element –		
	(A)	Temperature	(B)	Rainfall
	(C)	Cloud Cover	(D)	Atmospheric Pressure
23.	ʻKhai	ra disease' (also known as iron rust) of rice is	s cause	ed due to:
	(A)	Excessive application of nitrogen	(B)	Deficiency of zinc
	(C)	Bacterial infection	(D)	Iron deficiency

24.	Lysin (A)	ne is a limiting amino acid in: Cereals	(B)	Pulses
	(C)	Oilseeds	(D)	Green vegetables
25.	Whic	h among the following herbicides is a	non-selective h	erbicide?
	(A)	Paraquat	(B)	Alachlor
	(C)	Butachlor	(D)	Atrazine
26.	Berse	eem seed is treated with:		
	(A)	Rhizobium meliloti	(B)	Rhizobium lupini
	(C)	Rhizobium trifoli	(D)	Rhizobium Japonicum
27.	Conv	ersion of ADP to ATP is known as:		
	(A)	Photolysis	(B)	Photo phosphorylation
	(C)	Photosynthesis	(D)	Photorespiration
28.	Defic	eiency of which essential plant nutrier	nt leads to 'pop	pod in groundnut':
	(A)	Sulphur	(B)	Calcium
	(C)	Phosphorus	(D)	Boron
29.	Whic	h among the following weeds causes	dropsy disease	e in human beings:
	(A)	Pluchea lanceolata	(B)	Digera arvensis
	(C)	Parthenium hysterophorus	(D)	Argemone mexicana
30.	Roots	s absorb water from soil:		
	(A)	Actively	(B)	Passively
	(C)	Both actively and passively	(D)	None of these
31.	Sunfl	ower belongs to family:		
	(A)	Cruciferae	(B)	Austraceae
	(C)	Malvaceae	(D)	Poaceae
32.	Remo	oval of uniform thin layer of soil by the	ne action of wa	ter is referred as:
	(A)	Splash erosion	(B)	Sheet erosion
	(C)	Rill erosion	(D)	Gully erosion
33.	Majo	r source of water used by plants is:		
	(A)	Capillary water	(B)	Hygroscopic water
	(C)	Gravitational water	(D)	Inter space water
34.	Parth	nenium hysterophorus (Congress gras	s) can be contr	olled by:
	(A)	Chrysomella spp.	(B)	Dactylopius tomentosus
	(C)	Zygogramma bicolarata	(D)	Neochetina spp.
35.	Heav	y shedding of buds and bolls occurs i	n cotton due to	:
	(A)	Nitrogen deficiency in soil	(B)	Phosphorus deficiency in soil
	(C)	Magnesium deficiency in soil	(D)	Water stress at bud formation stage
36.	Drip	irrigation is most suited to:		
	(A)	Acid soil	(B)	Alkaline soil
	(C)	Saline soil	(D)	All of these
37.	The to	erm 'LEISA' is related to:		
	(A)	Organic farming	(B)	Inorganic farming
	(C)	Natural farming	(D)	All of these

38.	Light (A) (C)	intensity at which photosynthesis and respir Light compensation point Net photosynthesis	ation ar (B) (D)	re equal is known as: Light saturation point None of these
39.	` ′	h type of maize is mainly grown in India?  Dent corn  Flint corn	(B) (D)	Waxy corn Sweet corn
40.	Canol (A) (C)	a is a group of plants belonging to:  Mustard  Castor	(B) (D)	Safflower Vegetables
41.	One h (A) (C)	a cm of water is equal to: 1000 tonnes of water 10 tonnes of water	(B) (D)	100,000 litres of water 10,000 litres of water
42.	Under (A) (C)	stress conditions, which amino acid is accu Methionine Proline	mulate (B) (D)	d in plants: Tryptophan Phenyl alanine
43.	Stem (A) (C)	nodulation occurs in green manure crop of:  Aeschynomene afraspera  Sesabania aculeata	(B) (D)	Crotolaria juncea Vigna tunguiculata
44.	Stoma (A) (C)	ta closing can be induced by: Kaoline 2,4-D	(B) (D)	Linseed oil PMA
45.	Most (A) (C)	damaging single influence on storage life of High moisture content Low moisture content	seeds i (B) (D)	s: High temperature Both (A) and (B)
46.	Instru (A) (C)	ment used for measuring solar radiation is: Anemometer Psycrometer	(B) (D)	Barograph Pyranometer
47.	Attrac (A) (C)	ction of water molecules towards soil particle Adhesion Capillary force	es is: (B) (D)	Surface tension Cohesion
48.	The ci (A) (C)	ritical slope for soil erosion is:  1% 3%	(B) (D)	2% 5%
49.	The ir (A) (C)	nstrument used for measuring depth of water Lysimeter Odometer	table i (B) (D)	s known as: Piezometer Evaporimeter
50.	Sesan (A) (C)	ne belongs to family: Poaceae Pediliaceae	(B) (D)	Papilionoideae Ceasalpinoideae
51.	Water (A) (C)	inside the plant moves through: Phloem Fibre cells	(B) (D)	Xylem All of these

52.	(A) Genet	seed, the grow out test is conduct	(B)	Seed viability
	(C) Physic	cal purity	(D)	Yield potential
53.	Optimum see	d rate (kg/ha) of soybean is:		
	(A) 50-60		(B)	70-80
	(C) 80-90		(D)	100-110
54.	Which chemi	cal causes Finger leaf disease in c	otton?	
	(A) 2,4-D	•	(B)	Mancozeb
	(C) Boron		(D)	Acephate
55.	Cycocel is a:			
	(A) Auxin		(B)	Abscisic acid
	(C) Cytok	inin	(D)	Growth retardant
56.	Which among	g the following is the most severe	form of so	il water erosion?
	(A) Rill	8	(B)	Gully
	(C) Sheet		(D)	Splash
57.	Enzyme resno	onsible for carboxylation in C <sub>3</sub> typ	ne nlants is	
57.		ose diphosphate dehydrogenase	(B)	Phosphoenol pyruvic acid
		ose-1,5-biphosphate carboxylase	(D)	Glyceraldehyde dehydrogenase
58.	` /	g the following is a frost tolerant v	` ′	
56.	(A) Kranti	e	(B)	RH 781
	(C) RH 07		(D)	Pusa Vijay
59.	` /	s in cotton are known as	(-)	
39.	(A) Dirt	s in cotton are known as	(B)	Inert matter
	(C) Motes		(D)	None of these
<i>(</i> 0	` /		` '	
60.		a, sugarcane is mostly used with houd setts	-	Three bud setts
	( )	oud setts	(B) (D)	Single bud setts
<i>c</i> 1	` /		(D)	Single oud setts
61.		Inut producing state in India is:	(D)	Ciriamat
	· /	ra Pradesh	(B)	Gujarat Tamil Nadu
	,		(D)	Tanini Nadu
62.	-	cally, wheat is:		
		day plant	(B)	Day neutral plant
	(C) Long	day plant	(D)	Intermediate
63.	The infloresc	ence of sugarcane is known as:		
	(A) Panicl		(B)	Arrow
	(C) Racen	nose	(D)	Tiller
64.	Which among	g the following is a mycoherbicide	e	
	(A) Colleg	go	(B)	Valour
	(C) Brom	acil	(D)	Metribuzin
65.	Name of the inectar feeder		, the larva	l stage is phytophagous and adults are
	(A) Ortho		(B)	Hemiptera
	(C) Neuro	-	(D)	Lepidoptera
		_	` /	

66.	Which insecticide formulation consists of active ingredient mixed with a liquid solvent th needs to be diluted with water prior to application?			ent mixed with a liquid solvent that
	(A) (C)	Wettable powder Water dispersible powder	(B) (D)	Emulsifiable concentrate Soluble powder
67.	Which (A) (C)	n of the following characteristics do immature They are all plant feeders They are all called nymphs	e Lepio (B) (D)	dopteran and Coleopteran insects share? They are all found in the soil They all have biting and chewing mouthparts
68.	Summ (A) (C)	ner diapause is known as Hibernation Aestivation	(B) (D)	Overwintering None of these
69.	The so (A) (C)	cientific name of the Italian honey bee is  Apis mellifera  Apis dorsata	(B) (D)	Apis indica Apis florae
70.	The la (A) (C)	arval stage is predatory whereas the adults are Syrphid Chrysopa	pollin (B) (D)	nator in case of Coccinellid All of these
71.	The o (A) (C)	pening on an arthropod body surface that allo Spiracle Tracheoles	ows for (B) (D)	air transfer is called: Trachea Alveoli
72.	excee	are located between the compound eyes very distribution to the total form images.  Labrum  Gena		
73.	Honey (A) (C)	y bees often sting Single time Multiple times	(B) (D)	Two times All of these
74.	surrou	ody temperature of insects normally follows and inding and hence, it is termed as Hyperthermic Cold hardiness	·	where the temperature of the Warm blooded Poikilothermic
75.	Brown (A) (C)	n plant hopper is a major pest of Cotton Mustard	(B) (D)	Sunflower Paddy
76.	The u (A) (C)	se of synthetic pyrethroids has caused serior Bihar hairy caterpillar Mango mealy bug	(B) (D)	oreaks of Whitefly Mosquitoes
77.	The co	ommon name of <i>Chilo partellus</i> is Sugarcane stem borer Paddy stem borer	(B) (D)	Sorghum shootfly Maize stem borer

78.	Wing (A)	s are absent in Hymenoptera	(B)	Thysanura
	(C)	Thysanoptera	(D)	Trichoptera
79.	Mout	h parts in thrips belong to the type		
	(A)	Chewing type	(B)	Biting type
	(C)	Asymmetrical type	(D)	Sucking type
80.		ogramma chilonis is		
	(A)	Predator of mustard aphid	(B)	Larval parasite of mealy bug
	(C)	Egg parasitoid of sugarcane borers	(D)	Pupal parasitoid of cabbage butterfly
81.		systematic is the study of:	(= \)	
	(A)	genetic makeup of reproductive insects	(B)	relationships between groups of any size
	(C)	orders of insects only	(D)	morphological characters only
0.2	` ′	·	` /	morphorogram on markets only
82.	Pest v (A)	which occurs in isolated locations is known a Persistent pest	s (B)	Seasonal pest
	(C)	Sporadic pest	(D)	Occasional pest
83.	` ′	•	go.	
03.	(A)	h is the pest of potato tuber in field and stora Mealy bug	ge (B)	Cutworm
	(C)	Potato aphid	(D)	Potato tuber moth
84.	In ins	sect population which have only one generations:	on a y	ear, the shape of population growth
	(A)	S-shaped curve	(B)	J-shaped curve
	(C)	Both A and B	(D)	None of these
85.	The o	grazing food web begins with:		
03.	(A)	Detrivores	(B)	Carnivores
	(C)	Heterotrophs	(D)	Autotrophs
86.	Econ	omic injury level is econo	mic thr	reshold level.
	(A)	Half of the	(B)	Equal to
	(C)	Greater than	(D)	Less than
87.	PRA	stands for:		
	(A)	Participatory Rural Appraisal	(B)	Participatory Rapid Appraisal
	(C)	Programme Review Appraisal	(D)	People's Rural Appraisal
88.	Natio	onal Agricultural Technology Project was star	rted in	the year:
	(A)	1996	(B)	1998
	(C)	1994	(D)	2000
89.	Acco	rding to Prof. Mildred Hurton, the first traini	ng gro	oup of human race is:
	(A)	Family	(B)	Community
	(C)	Country	(D)	Home

90.	Lt. Co (A) (C)	ol. Albert Mayer started a project called: Gurgaon Project Etawah Pilot Project	B. D.	Nilokheri Project Marthandom Project
91.	The v (A) (C)	word communication is derived from: Greek word Russian word	(B) (D)	French word Latin word
92.		e preparation of audio-visual aids, the principl Attractiveness, Brevity, Concreteness Attractiveness, Brevity, Clarity	` /	
93.	Whic (A) (C)	h among the following is a method of identify Socio-metric method Informants' rating	ying le (B) (D)	ader? Self –designated method All the above
94.		h among the following models of communication:  Berlo's Model  Aristotle's Model	(B) (D)	called 'Mathematical Theory of Shannon and Weaver's Model Leagan's Model
95.	Single (A) (C)	e line of command was one of the main feat EPP NARP	ures of (B) (D)	: NAEP T & V
96.	Exter (A) (C)	nsion Education Institute for North India is loc Haryana UP	cated a (B) (D)	t: Punjab Bihar
97.	Exter (A) (C)	nsion Programme is a statement of situation, of Motivation Reasons	objectiv (B) (D)	ves, problems and: Attitude Solution
98.	Whic (A) (C)	h among the following entrepreneurs is timid Fabian Imitative	and ca (B) (D)	nutious in nature: Drone Innovative
99.	Whic (A) (C)	h among the following is a technique of idea Seminar Brain storming	genera (B) (D)	tion : Conference Incubation
100.	The c (A) (C)	concept of venture capital was originated in: India U.K.	(B) (D)	Japan U.S.A.
101.	Temp (A) (C)	perate Forests of the Western Himalayas are the Abies spp Ouercus spp.	he Clir (B) (D)	Cedrus spp.

102.	The y: (A) (C)	ield of forest is regulated on the basis of volu Von Mantel's formula Annual coups	ume by (B) (D)	using following: Permanent allotment method Periodic block method
103.	Widel (A) (C)	y accepted Classification of Forest Types of Climate Ecology	India i (B) (D)	s based upon: Physiography Composition
104.	Field (A)	planting season for poplar tree is Winter Rainy	(B) (D)	Summer Throughout the year
105.	` ′	ate navel stores are by-products of the follow Soda pulping Kraft pulping	` /	
106.	Ghatti (A) (C)	gum is obtained from:  Sterculia ureus  Anogeissus latifolia	(B) (D)	Astragalus spp Acacia arabica
107.	Maxir (A) (C)	num segregation is observed in: $F_1 \\ F_3$	(B) (D)	$F_2$ $F_4$
108.	Single (A) (C)	e seed descent method is a modification of: Pedigree method Mass selection	(B) (D)	Bulk method F <sub>4</sub>
109.	Veget (A) (C)	atively propagated crops are usually: Homozygous Both A and B	(B) (D)	Heterozygous Apomictic
110.	The m (A) (C)	nost commonly used breeding scheme is: Back cross method Pedigree method	(B) (D)	Bulk method Mass selection
111.	Landr (A) (C)	aces are very good sources of genes for: high yield Both (A) and (B)	(B) (D)	adaptability None of these
112.	Variat (A) (C)	tion within a pureline is due to Genetic causes Both (A) and (B)	(B) (D)	Environment None of these
113.	Trans (A) (C)	genic plants are being cultivated in India in: Brinjal Cotton	(B) (D)	Wheat Soybean
114.	Cotton (A) (C)	n and pigeonpea are: Cross pollinated Often cross pollinated	(B) (D)	Self pollinated Apomictic

115.	(A)	n of the following has been used for inducing Tift 23 A	(B)	H. petiolaris
	(C)	Milo	(D)	T. timopheevi
116.	TGMS	S and PGMS systems of male sterility are ava	ailable	in:
	(A)	Wheat	(B)	Sorghum
	(C)	Rice	(D)	Bajra
117.	Centre	e of origin of Gossypium herbaceum is:		
	(A)	North America	(B)	South America
	(C)	Africa	(D)	India
118.	Golde	en rice is related to enhanced:		
	(A)	pro-vitamin A	(B)	Mg
	(C)	Zn	(D)	Cu
119.	Genet	ic disassortative mating will result in:		
	(A)	Reduced homozygosity	(B)	Increased homozygosity
	(C)	More inbreeding depressions	(D)	None of these
	` ′		(2)	
120.		nap unit is equal to:	(D)	1000/
	(A)	1% recombination between genes	(B)	100% recombination between genes
	(C)	50% recombination between genes	(D)	10% recombination between genes
121.	If reco	ombination occurs before the chromosome ree:	eplicat	ion, percentage of parental type gametes
	(A)	100	(B)	50
	(C)	25	(D)	0
122.	Which	of following mechanisms does not promote	s cross	s nollination:
122.	(A)	Dicliny	(B)	Chasmogamy
	(C)	Dichogamy	(D)	Self-incompatibility
	` ′		. ,	
123.		n of the following can be considered a case o		
	(A)	Extra-nuclear inheritance	(B)	Multiple alleles
	(C)	Incomplete dominance	(D)	All of these
124.	Upper	limit of crossing over between two genes is	:	
	(A)	100 %	(B)	50 %
	(C)	25 %	(D)	75 %
125.	Bacter	rial artificial chromosome may be used for th	e cons	struction of
	(A)	c-DNA library	(B)	Genomic library
	(C)	Tissue specific library	(D)	All of these
126.		iment that unambiguously demonstrated that	nt DN	A is the genetic material was conducted
	by:	Watson and Crick	(P)	Hershey and Chase
	(A) (C)	Fred Griffith	(B) (D)	Avery, MacLeod and McCarty
	(C)	TICA OTITICAL	(D)	rivery, mached and micearty

127.	Which (A) (C)	n of the following is not an auxin: Indole acetic acid Kinetin	(B) (D)	2,4-D Naphthalene acetic acid
128.		n of cytoplasm from two species and nuc	lear go	enes from any one species leads to the
	develo (A) (C)	opment of: Cybrid Protoplast	(B) (D)	Somatic hybrid None of these
129.	Polym (A) (C)	nerase chain reaction (PCR) was invented by Rosalind Franklin Watson and Crick	(B) (D)	Arthur Korenburg K Mullis
130.	Which (A) (C)	n of the following is not a "direct gene transf Liposome encapsulation Agrobacterium	er" me (B) (D)	ethod: Microinjection Particle bombardment
131.	Which (A) (C)	h of the following fruits is a rich source of vi Apple Aonla	tamin (B) (D)	C? Mango Papaya
132.	` ′	ning is helpful in Moisture conservation Both A & B	(B) (D)	Weed control Neither A nor B
133.	Which (A) (C)	h of the following varieties of apple is a polli Red Chief Royal Delicious	inizer? (B) (D)	Golden Delicious Red Delicious
134.	Which (A) (C)	n of the following varieties of mango is suita Neelum Alphonso	ble for (B) (D)	high density planting? Langra Amrapalli
135.	Which (A) (C)	n fruit crop is suitable for arid regions? Apple Banana	(B) (D)	Ber Pineapple
136.	Which (A) (C)	n system of planting is most suitable for slop Contour Hexagonal	py lan (B) (D)	ds in hilly areas? Square system Rectangular
137.	Spong (A) (C)	gy tissue is a physiological disorder of Mango Apple	(B) (D)	Guava Papaya
138.	Which (A) (C)	h PGR is commonly used for rooting initiation ABA IBA	on in st (B) (D)	tem cuttings? 2, 4-D IAA
139.	Which (A)	h among the following is an aggregate fruit Pineapple Pomegranate	(B)	Strawberry Grane

140.	Amor (A) (C)	ng these fruit crops, the richest source o Banana Jamun	f Fe is (B) (D)	Ber Karonda
141.	` ′	h of following fruit is most suitable for Apple Ber	jelly making (B) (D)	Banana Guava
142.	Most (A) (C)	of apple varieties have the chilling requ 2000-3000 hrs. 100-500 hrs.	irement of (B) (D)	1000-1500 hrs 500-1000 hrs.
143.	Whic (A) (C)	h of the following nematode is kidney s <i>Heterodera</i> <i>Pratylenchus</i>	haped: (B) (D)	Rotylenchus Xiphinema
144.	A ser (A) (C)	ies of transverse depressions on the cuti Annulations Striae	cle of nemat (B) (D)	ode is: Appendages None of these
145.	Trans (A) (C)	smission of grape vine fan leaf virus is b Radopholus similus Anguina tritici	y nematode: (B) (D)	(B) Ditylenchus angustus Xiphinema index
146.	Whic (A) (C)	h of the following is nematicide: Dinocap Tridemorph	(B) (D)	Metalaxyl None of these
147.	` ′	ina tritici causes:  Molya disease of wheat Root knot of vegetables	(B) (D)	Ear cockle disease of wheat All of these
148.	` ′	h of the following is a piercing organ in Haustorium Stylet	. ,	Appressorium None of these
149.	Sclero (A) (C)	otinia sclerotiorum survives in soil in th Oospore Basidiospore	ne form of: (B) (D)	Sclerotia Perithecia
150.	Irish (A) (C)	famine was caused due to: Early blight of potato Late blight of potato	(B) (D)	Downy mildew of onion Downy mildew of grapes
151.	Rust (A) (C)	and smut fungi belong to:  Zygomycota  Ascomycota	(B) (D)	Basidiomycota Oomycota
152.	Whip (A)	tail of cauliflower is due to Oxygen deficiency Mo deficiency	(B) (D)	Water deficiency Zn deficiency

153.		s canker is caused by Bacteria	(D)	Nematode
	(A) (C)	Fungi	(B) (D)	Algae
154.	Whiel	h one of the following is not a biological con	trol ag	ent <sup>.</sup>
10 1.	(A)	Trichoderma	(B)	Pseudomonas
	(C)	Paecilomyces	(D)	Xanthomonas
	(0)	1 decitomyees	(D)	11ammontones
155.		for Gene hypothesis was given by		
	(A)	Anton de Bary	(B)	H.H. Flor
	(C)	P. M.A. Millardet	(D)	T.J. Burrill
156.	Cadar	ng-Cadang disease of coconut is caused by		
	(A)	Fungi	(B)	Bacteria
	(C)	Viroid	(D)	Nematode
1.57	. ,		( )	
157.	_	onents of bordeux mixture are	(D)	Lima farmana anlahata matar
	(A)	Lime, iron sulphate, water	(B)	Lime, ferrous sulphate, water
	(C)	Lime, copper sulphate, water	(D)	Lime, calcium chloride, water
158.		portation of potato tuber for seed purpose is a due to the presence of	not allo	owed from Darjeeling hills to North
	(A)	Synchytrium endobioticum	(B)	Rhizoctonia solani
	(A) (C)	Sclerotinia rolfsii	(D)	Sclerotinia sclerotiorum
	(C)	Scierouma roijsu	(D)	Scieronnia scieronorum
159.	Albug	go candida survives as		
	(A)	Ascospores	(B)	Basidiospores
	(C)	Pycniospores	(D)	Oospores
160.	Whic	h one of the following chemical is most effec	tive in	managing downy mildew diseases:
	(A)	Dinocap	(B)	Metalaxyl
	(C)	Wettable sulphur	(D)	Tetracycline
		•	(-)	
161.		disease of banana is caused by		
	(A)	Colletotrichum gloeosporioides	(B)	Pseudomonas musae
	(C)	Colletotrichum musae	(D)	Ralstonia solanacearum
162.	Apoth	necium contains		
	(A)	Conidia	(B)	Basidiospores
	(C)	Ascospores	(D)	Zoospores
1.62	A .	16 % 1 1 6 4 6 .		
163.		al fruiting bodies of anthracnose fungi are	(D)	
	(A)	Sporodochia	(B)	Cleistothecia
	(C)	Sporangia	(D)	Acervuli
164.	In Ver	nturia inaequalis, the acsi and ascospores are	forme	ed in
	(A)	Pseudothecium	(B)	Cleistothecium
	(C)	Pycnium	(D)	Acervulus
165.	Rust	of rose is caused by		
	(A)	Puccinia spp.	(B)	Uromyces spp.
	(C)	Phakopsora spp.	(D)	Phragmidium spp.

166.		ture leaf fall of apple is caused by  Marssonina coronaria  Venturia inaequalis	(B) (D)	Taphrina deformans None of these
167.	(A)	ry mildew of mango is caused by Olpidium mangiferae Oidium mangiferae	(B) (D)	Erysiphe polygoni Macrophoma mangiferae
168.	(A)	blight of tea is caused by Cephaleuros mycoidea Poria hypolateritia	(B) (D)	Exobasidium vexans Botryodiplodia theobromae
169.	(A)	one of the following is not a component of 'Susceptible host Favourable environment	diseas (B) (D)	e triangle' Suppressive soil Virulent pathogen
170.	_	all of coriander is caused by  Protomyces macrosporus  Taphrina deformans	(B) (D)	Agrobacterium tumefaciens Agrobacterium radiobacter
171.	(A)	eal type of seed germination occur in French Bean Bitter gourd	(B) (D)	Pea All of these
172.	(A)	al purity is checked by Germination test Grow out test	(B) (D)	Vigour test None of these
173.	(A)	riming improves the Longevity of seed Colour of the seed	(B) (D)	Vigour of seed All of these
174.	(A)	al dormancy caused by hard seed coat is ove Stratification Steeping	rcome (B) (D)	by Scarification Fluid drilling
175.	Desicc (A) (C)	ant used for drying of seed is Cellulose Sillica gel	(B) (D)	Wood ash Activated clay
176.		eed moisture content for sealed storage is 4-8 % < 4%	(B) (D)	8-12 % None of these
177.	(A)	oil can be amended with the help of Lime None	(B) (D)	FYM Both
178.	(A)	is a rock Igneous Metamorphic	(B) (D)	Sedimentary Mixture of all

179.		h of the following microbes involve in the nit		
	(A) (C)	Nitrsomonas Both	(B) (D)	Nitrobactor None
180.	The ra	ange of usefulness of tensiometers is between 0-1.0 bar	(B)	0-0.8 bar
	(C)	0-0.6 bar	(D)	0-0.33 bar
181.		ular – arbuscular mycorrhiza (VAM) is knowr		
	(A) (C)	Nitrogen fixation Sulphur oxidation	(B) (D)	Uptake of phosphorus None of these
182.		ra disease of rice is caused due to deficiency o		
	(A) (C)	Mn Fe	(B) (D)	Zn N
183.		meal is well suited for		
	(A) (C)	Alkaline soil Acid soil	(B) (D)	Neutral soil All of these
104	. ,		(D)	Thi of these
184.	Single (A)	e superphosphate contains : 20% P <sub>2</sub> O <sub>5</sub>	(B)	16-18 % P <sub>2</sub> O <sub>5</sub>
	(C)	10-46% P <sub>2</sub> O <sub>5</sub>	(D)	20-25% P <sub>2</sub> O
185.	Epipe	edon is a diagnostic		
	(A)	Surface horizon	(B)	Sub-surface horizon
	(C)	Both A & B	(D)	None of these
186.	At wh	nat PF wilting percentage arrives		
	(A)	4.2	(B)	4.5
	(C)	5.0	(D)	6.0
187.	Petros (A)	genesis which is the study of the  Description of rocks	(B)	Origin of rocks
	(C)	Texture of the rocks	(D)	Density of rocks
188.	Three	particles have diameters of 0.5, 1.5, and 0.15	mm.	The three particles are
	(A)	Sand, silt, and clay	(B)	Sand, gravel, and silt
	(C)	Sand, sand and sand	(D)	Silt, silt, and clay
189.		oot growth is drastically reduced when Oxyge		
	(A) (C)	20 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute 40 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute	(B) (D)	30 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute 50 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute
190.	The a	vailability of plant nutrients are more at a pH	range	of 6-7 except
	(A)	P	(B)	K
	(C)	В	(D)	Mo
191.	Mont	morillonite has higher cation exchange capaci	ty (Cl	EC) in comparison to
	(A)	Kaolinite	(B)	Illite
	(C)	Both of these	(D)	None of these

192. In which soil structure infiltration, permeability and aeration are good			tion are good	
	(A) (C)	Platy Block like	(B) (D)	Prism like Sphere like (granular)
193.		narmful effect of continuous application of someon of	ewage	water over several years may result in
	(A) (C)	Cd P	(B) (D)	N Ca
194.	Irriga	tion water quality is evaluated based upon		
	(A)	Total salt content, sodium and specific ion toxicities	(B)	pH of the water
	(C)	Acidity of the water	(D)	Ca content of the water
195.	-	ge coloured varieties in carrot is rich source o	f	
	(A)	Carotene	(B)	Lycopene
	(C)	Anthocyanine	(D)	None of these
196.	Per he	ectare seed rate of broad bean is		
	(A)	20-30 kg	(B)	30-40 kg
	(C)	50-60 kg	(D)	70-100 kg
197.	Potato	o is mainly propagated by		
	(A)	Tuber	(B)	Corm
	(C)	Seeds	(D)	Selts
198.	Types	s of vegetable gardening followed on the Dal	Lake o	of the Kashmir Valley is
	(A)	Floating garden	(B)	Hydroponics
	(C)	Kitchen garden	(D)	None of these
199.	Whic	h of the following is best for vegetable cultive	ation	
	(A)	Sandy soil	(B)	Sandy loam soil
	(C)	Clay loam soil	(D)	Clay soil
200.	Hybri	d variety of chilli recommended for cultivation	on is	
	(A)	Punjab Lal	(B)	CH-I
	(C)	Punjab Surkh	(D)	None of the above
	( -)	J	( - )	· - · · · · · · ·

Sr. No.	Question	
1.	Water inside the plant moves through: <ul><li>(A) Phloem</li><li>(C) Fibre cells</li></ul>	<ul><li>(B) Xylem</li><li>(D) All of these</li></ul>
2.	While testing seed, the grow out test is conducted (A) Genetic purity (C) Physical purity	to determine:  (B) Seed viability  (D) Yield potential
3.	Optimum seed rate (kg/ha) of soybean is: (A) 50-60 (C) 80-90	(B) 70-80 (D) 100-110
4.	Which chemical causes Finger leaf disease in cotto (A) 2,4-D (C) Boron	on? (B) Mancozeb (D) Acephate
5.	Cycocel is a:  (A) Auxin  (C) Cytokinin	<ul><li>(B) Abscisic acid</li><li>(D) Growth retardant</li></ul>
6.	Which among the following is the most severe form (A) Rill (C) Sheet	m of soil water erosion?  (B) Gully  (D) Splash
7.	Enzyme responsible for carboxylation in C <sub>3</sub> type p (A) Ribulose diphosphate dehydrogenase (C) Ribulose-1,5-biphosphate carboxylase	lants is:  (B) Phosphoenol pyruvic acid  (D) Glyceraldehyde dehydrogenase
8.	Which among the following is a frost tolerant varie (A) Kranti (C) RH 0749	ety of raya (B) RH 781 (D) Pusa Vijay
9.	Contaminants in cotton are known as <ul> <li>(A) Dirt</li> <li>(C) Motes</li> </ul>	<ul><li>(B) Inert matter</li><li>(D) None of these</li></ul>
10.	In north India, sugarcane is mostly used with how (A) Two bud setts (C) Four bud setts	many buds? (B) Three bud setts (D) Single bud setts
11.	Major groundnut producing state in India is: <ul> <li>(A) Andhra Pradesh</li> <li>(C) Maharastra</li> </ul>	(B) Gujarat (D) Tamil Nadu
12.	Photoperiodically, wheat is: (A) Short day plant (C) Long day plant	<ul><li>(B) Day neutral plant</li><li>(D) Intermediate</li></ul>
13.	The inflorescence of sugarcane is known as: <ul> <li>(A) Panicle</li> <li>(C) Racemose</li> </ul>	(B) Arrow (D) Tiller

14.	Which among the following is a myco (A) Collego (C) Bromacil	rerbicide (B) Valour (D) Metribuzin	
15.	` ′	general), the larval stage is phytophagous and adults a	are
	(A) Orthoptera (C) Neuroptera	<ul><li>(B) Hemiptera</li><li>(D) Lepidoptera</li></ul>	
16.	Which insecticide formulation consists needs to be diluted with water prior to	of active ingredient mixed with a liquid solvent that application?	
	<ul><li>(A) Wettable powder</li><li>(C) Water dispersible powder</li></ul>	<ul><li>(B) Emulsifiable concentrate</li><li>(D) Soluble powder</li></ul>	
17.	<ul><li>Which of the following characteristics</li><li>(A) They are all plant feeders</li><li>(C) They are all called nymphs</li></ul>	do immature Lepidopteran and Coleopteran insects sh  (B) They are all found in the soil  (D) They all have biting and chewing mouthparts	are?
18.	Summer diapause is known as (A) Hibernation (C) Aestivation	<ul><li>(B) Overwintering</li><li>(D) None of these</li></ul>	
19.	The scientific name of the Italian hone (A) Apis mellifera (C) Apis dorsata	(B) Apis indica (D) Apis florae	
20.	The larval stage is predatory whereas (A) Syrphid (C) Chrysopa	ne adults are pollinator in case of  (B) Coccinellid  (D) All of these	
21.	The opening on an arthropod body sur (A) Spiracle (C) Tracheoles	(B) Trachea (D) Alveoli	
22.	What are located between the comp	ound eyes which may be variable in number, but a pears to aid the insect in determining light intensit  (B) Ocelli  (D) Frons	
23.	Honey bees often sting (A) Single time (C) Multiple times	<ul><li>(B) Two times</li><li>(D) All of these</li></ul>	
24.	surrounding and hence, it is termed as (A) Hyperthermic	lly follows closely the temperature of the  (B) Warm blooded	
25.	<ul><li>(C) Cold hardiness</li><li>Brown plant hopper is a major pest of</li><li>(A) Cotton</li></ul>	<ul><li>(D) Poikilothermic</li><li>(B) Sunflower</li></ul>	
	(C) Mustard	(D) Paddy	

26.	The us	se of synthetic pyrethroids has caused seriou Bihar hairy caterpillar	s outb	oreaks of Whitefly
	(C)	Mango mealy bug	(D)	Mosquitoes
27.	The co	ommon name of Chilo partellus is		
	(A)	Sugarcane stem borer	(B)	Sorghum shootfly
	(C)	Paddy stem borer	(D)	Maize stem borer
28.	Wings	are absent in		
	(A)	Hymenoptera	(B)	Thysanura
	(C)	Thysanoptera	(D)	Trichoptera
29.	Mouth	parts in thrips belong to the type		
	(A)	Chewing type	(B)	Biting type
	(C)	Asymmetrical type	(D)	Sucking type
30.	Tricho	ogramma chilonis is		
	(A)	Predator of mustard aphid	(B)	Larval parasite of mealy bug
	(C)	Egg parasitoid of sugarcane borers	(D)	Pupal parasitoid of cabbage butterfly
31.	The s	ystematic is the study of:		
J1.	(A)	genetic makeup of reproductive insects	(B)	relationships between groups of any
	(12)	general numbers of reproductive indeed	(2)	size
	(C)	orders of insects only	(D)	morphological characters only
32.	Pest w	which occurs in isolated locations is known as		
	(A)	Persistent pest	(B)	Seasonal pest
	(C)	Sporadic pest	(D)	Occasional pest
33.	Which	is the pest of potato tuber in field and storag	e	
	(A)	Mealy bug	(B)	Cutworm
	(C)	Potato aphid	(D)	Potato tuber moth
34.	In inse	ect population which have only one generation	n a ye	ear, the shape of population growth
	curve		•	
	(A)	S-shaped curve	(B)	J-shaped curve
	(C)	Both A and B	(D)	None of these
35.	The gr	razing food web begins with:		
	(A)	Detrivores	(B)	Carnivores
	(C)	Heterotrophs	(D)	Autotrophs
36.	Econo	mic injury level is econor	nic thi	reshold level.
	(A)	Half of the	(B)	Equal to
	(C)	Greater than	(D)	Less than
37.	PRA s	tands for:		
	(A)	Participatory Rural Appraisal	(B)	Participatory Rapid Appraisal
	(C)	Programme Review Appraisal	(D)	People's Rural Appraisal
38.	Nation	nal Agricultural Technology Project was start	ed in t	he year
	(A)	1996	(B)	1998
	(C)	1994	(D)	2000

39.	Accor (A) (C)	ding to Prof. Mildred Hurton, the first trainin Family Country	g grow (B) (D)	up of human race is: Community Home
40.	Lt. Co (A) (C)	l. Albert Mayer started a project called : Gurgaon Project Etawah Pilot Project	B. D.	Nilokheri Project Marthandom Project
41.	The w (A) (C)	ord communication is derived from: Greek word Russian word	(B) (D)	French word Latin word
42.	In the (A) (C)	preparation of audio-visual aids, the principl Attractiveness, Brevity, Concreteness Attractiveness, Brevity, Clarity	e of 'A (B) (D)	Attractiveness, Brevity, Colour Attitude, Brief, Communication
43.	Which (A) (C)	a among the following is a method of identify Socio-metric method Informants' rating	ving lea (B) (D)	ader? Self –designated method All the above
44.		n among the following models of communication: Berlo's Model Aristotle's Model	tion is (B) (D)	called 'Mathematical Theory of Shannon and Weaver's Model Leagan's Model
45.	Single (A) (C)	e line of command was one of the main featu EPP NARP	ures of (B) (D)	NAEP T & V
46.	Extens (A) (C)	sion Education Institute for North India is loc Haryana UP	cated a (B) (D)	t: Punjab Bihar
47.	Extens (A) (C)	sion Programme is a statement of situation, o Motivation Reasons	bjectiv (B) (D)	res, problems and: Attitude Solution
48.	Which (A) (C)	n among the following entrepreneurs is timid Fabian Imitative	and ca (B) (D)	utious in nature: Drone Innovative
49.	Which (A) (C)	a among the following is a technique of idea s Seminar Brain storming	genera (B) (D)	tion : Conference Incubation
50.	The co (A) (C)	oncept of venture capital was originated in: India U.K.	(B) (D)	Japan U.S.A.

51.	Temp (A) (C)	perate Forests of the Western Himalayas are the Abies spp Quercus spp.	he Clir (B) (D)	natic Climax of the following: Cedrus spp. Betula spp
52.	The y (A) (C)	rield of forest is regulated on the basis of volu Von Mantel's formula Annual coups	(B) (D)	vusing following: Permanent allotment method Periodic block method
53.	Wide (A) (C)	ly accepted Classification of Forest Types of Climate Ecology	India i (B) (D)	is based upon: Physiography Composition
54.	Field (A) (C)	planting season for poplar tree is Winter Rainy	(B) (D)	Summer Throughout the year
55.	Sulph (A) (C)	nate navel stores are by-products of the follow Soda pulping Kraft pulping	ving pu (B) (D)	alping process: Sulphate pulping None of the above
56.	Ghatt (A) (C)	i gum is obtained from:  Sterculia ureus  Anogeissus latifolia	(B) (D)	Astragalus spp Acacia arabica
57.	Maxim (A) (C)	mum segregation is observed in: $F_1$ $F_3$	(B) (D)	F <sub>2</sub> F <sub>4</sub>
58.	Single (A) (C)	e seed descent method is a modification of: Pedigree method Mass selection	(B) (D)	Bulk method F <sub>4</sub>
59.	Veget (A) (C)	tatively propagated crops are usually: Homozygous Both A and B	(B) (D)	Heterozygous Apomictic
60.	The n (A) (C)	nost commonly used breeding scheme is:  Back cross method  Pedigree method	(B) (D)	Bulk method Mass selection
61.	Landa (A) (C)	races are very good sources of genes for: high yield Both (A) and (B)	(B) (D)	adaptability None of these
62.	Varia (A) (C)	tion within a pureline is due to  Genetic causes  Both (A) and (B)	(B) (D)	Environment None of these
63.	Trans (A) (C)	genic plants are being cultivated in India in: Brinjal Cotton	(B) (D)	Wheat Soybean

64.	Cotton (A) (C)	n and pigeonpea are: Cross pollinated Often cross pollinated	(B) (D)	Self pollinated Apomictic
65.	Which (A) (C)	n of the following has been used for inducing Tift 23 A Milo	male s (B) (D)	sterility in Bajra ? H. petiolaris T. timopheevi
66.	TGM: (A) (C)	S and PGMS systems of male sterility are ava Wheat Rice	ilable (B) (D)	in: Sorghum Bajra
67.	Centro (A) (C)	e of origin of <i>Gossypium herbaceum</i> is: North America Africa	(B) (D)	South America India
68.	Golde (A) (C)	en rice is related to enhanced: pro-vitamin A Zn	(B) (D)	Mg Cu
69.	Genet (A) (C)	ic disassortative mating will result in: Reduced homozygosity More inbreeding depressions	(B) (D)	Increased homozygosity None of these
70.	One n (A) (C)	nap unit is equal to:  1% recombination between genes  50% recombination between genes	(B) (D)	100% recombination between genes 10% recombination between genes
71.	If reco	ombination occurs before the chromosome ree: 100	eplication (B)	ion, percentage of parental type gametes
	(C)	25	(D)	0
72.	Which (A) (C)	n of following mechanisms does not promotes Dicliny Dichogamy	s cross (B) (D)	pollination: Chasmogamy Self-incompatibility
73.	Which (A) (C)	n of the following can be considered a case of Extra-nuclear inheritance Incomplete dominance	(B) (D)	Mendelian inheritance ? Multiple alleles All of these
74.	Upper (A) (C)	limit of crossing over between two genes is: 100 % 25 %	(B) (D)	50 % 75 %
75.	Bacter (A) (C)	rial artificial chromosome may be used for th c-DNA library Tissue specific library	e cons (B) (D)	truction of: Genomic library All of these
76.	_	iment that unambiguously demonstrated tha	t DNA	A is the genetic material was conducted
	by: (A) (C)	Watson and Crick Fred Griffith	(B) (D)	Hershey and Chase Avery, MacLeod and McCarty

77.	Which (A) (C)	n of the following is not an auxin: Indole acetic acid Kinetin	(B) (D)	2,4-D Naphthalene acetic acid
78.	Fusion	n of cytoplasm from two species and nuc	elear ge	enes from any one species leads to the
	develo (A) (C)	opment of: Cybrid Protoplast	(B) (D)	Somatic hybrid None of these
79.	Polym (A) (C)	nerase chain reaction (PCR) was invented by Rosalind Franklin Watson and Crick	y: (B) (D)	Arthur Korenburg K Mullis
80.	Which (A) (C)	of the following is not a "direct gene trans Liposome encapsulation Agrobacterium	fer" me (B) (D)	thod: Microinjection Particle bombardment
81.	Which (A) (C)	n of the following fruits is a rich source of v Apple Aonla	itamin (B) (D)	C? Mango Papaya
82.	Mulch (A) (C)	ning is helpful in  Moisture conservation  Both A & B	(B) (D)	Weed control Neither A nor B
83.	Which (A) (C)	n of the following varieties of apple is a poll Red Chief Royal Delicious	inizer? (B) (D)	Golden Delicious Red Delicious
84.	Which	n of the following varieties of mango is suita	able for	high density planting?
	(A) (C)	Neelum Alphonso	(B) (D)	Langra Amrapalli
85.	Which (A) (C)	a fruit crop is suitable for arid regions? Apple Banana	(B) (D)	Ber Pineapple
86.	Which (A) (C)	n system of planting is most suitable for slop Contour Hexagonal	opy land (B) (D)	ds in hilly areas? Square system Rectangular
87.	Spong (A) (C)	gy tissue is a physiological disorder of Mango Apple	(B) (D)	Guava Papaya
88.	Which (A) (C)	n PGR is commonly used for rooting initiati ABA IBA	on in st (B) (D)	tem cuttings? 2, 4-D IAA
89.	Which (A) (C)	n among the following is an aggregate fruit Pineapple Pomegranate	(B) (D)	Strawberry Grape

90.	Amo: (A)	ng these fruit crops, the richest source of Fe is Banana	(B)	Ber			
	(C)	Jamun	(D)	Karonda			
91.	Whic	ch of following fruit is most suitable for jelly r	naking	5			
	(A)	Apple	(B)	Banana			
	(C)	Ber	(D)	Guava			
92.	Most	of apple varieties have the chilling requireme	nt of				
	(A)	2000-3000 hrs.	(B)	1000-1500 hrs			
	(C)	100-500 hrs.	(D)	500-1000 hrs.			
93.	Whic	th of the following nematode is kidney shaped	:				
	(A)	Heterodera	(B)	Rotylenchus			
	(C)	Pratylenchus	(D)	Xiphinema			
94.	A ser	ies of transverse depressions on the cuticle of	nemat	code is:			
	(A)	Annulations	(B)	Appendages			
	(C)	Striae	(D)	None of these			
95.	Trans	Transmission of grape vine fan leaf virus is by nematode:					
	(A)	Radopholus similus	(B)	(B) Ditylenchus angustus			
	(C)	Anguina tritici	(D)	Xiphinema index			
96.	Which of the following is nematicide:						
	(A)	Dinocap	(B)	Metalaxyl			
	(C)	Tridemorph	(D)	None of these			
97.	Anguina tritici causes:						
	(A)	Molya disease of wheat	(B)	Ear cockle disease of wheat			
	(C)	Root knot of vegetables	(D)	All of these			
98.	Which of the following is a piercing organ in nematode:						
	(A)	Haustorium	(B)	Appressorium			
	(C)	Stylet	(D)	None of these			
99.	Sclerotinia sclerotiorum survives in soil in the form of:						
	(A)	Oospore	(B)	Sclerotia			
	(C)	Basidiospore	(D)	Perithecia			
100.	Irish	famine was caused due to:					
	(A)	Early blight of potato	(B)	Downy mildew of onion			
	(C)	Late blight of potato	(D)	Downy mildew of grapes			
101.	Rust	and smut fungi belong to:					
	(A)	Zygomycota	(B)	Basidiomycota			
	(C)	Ascomycota	(D)	Oomycota			
102.	_	otail of cauliflower is due to					
	(A)	Oxygen deficiency	(B)	Water deficiency			
	(C)	Mo deficiency	(D)	Zn deficiency			

103.		canker is caused by		
	(A)	Bacteria	(B)	Nematode
	(C)	Fungi	(D)	Algae
104.	Which	n one of the following is not a biological con-	trol age	ent:
	(A)	Trichoderma	(B)	Pseudomonas
	(C)	Paecilomyces	(D)	Xanthomonas
105.	Gene	for Gene hypothesis was given by		
	(A)	Anton de Bary	(B)	H.H. Flor
	(C)	P. M.A. Millardet	(D)	T.J. Burrill
106.	Cadan	g-Cadang disease of coconut is caused by		
	(A)	Fungi	(B)	Bacteria
	(C)	Viroid	(D)	Nematode
107.	Comp	onents of bordeux mixture are		
	(A)	Lime, iron sulphate, water	(B)	Lime, ferrous sulphate, water
	(C)	Lime, copper sulphate, water	(D)	Lime, calcium chloride, water
108.		portation of potato tuber for seed purpose is a	not allo	owed from Darjeeling hills to North
	India	due to the presence of		
	(A)	Synchytrium endobioticum	(B)	Rhizoctonia solani
	(C)	Sclerotinia rolfsii	(D)	Sclerotinia sclerotiorum
109.	Albug	o candida survives as		
	(A)	Ascospores	(B)	Basidiospores
	(C)	Pycniospores	(D)	Oospores
110.	Which	n one of the following chemical is most effec	tive in	
	(A)	Dinocap	(B)	Metalaxyl
	(C)	Wettable sulphur	(D)	Tetracycline
111.	Moko	disease of banana is caused by		
	(A)	Colletotrichum gloeosporioides	(B)	Pseudomonas musae
	(C)	Colletotrichum musae	(D)	Ralstonia solanacearum
112.	Apoth	ecium contains		
	(A)	Conidia	(B)	Basidiospores
	(C)	Ascospores	(D)	Zoospores
113.	Asexu	al fruiting bodies of anthracnose fungi are		
	(A)	Sporodochia	(B)	Cleistothecia
	(C)	Sporangia	(D)	Acervuli
114.		aturia inaequalis, the acsi and ascospores are	forme	
	(A)	Pseudothecium	(B)	Cleistothecium
	(C)	Pycnium	(D)	Acervulus
115.	Rust	of rose is caused by		
	(A)	Puccinia spp.	(B)	Uromyces spp.
	(C)	Phakopsora spp.	(D)	Phragmidium spp.

116.	Premature leaf fall of apple is caused by (A) Marssonina coronaria (C) Venturia inaequalis	(B) (D)	Taphrina deformans None of these
117.	Powdery mildew of mango is caused by (A) Olpidium mangiferae (C) Oidium mangiferae	(B) (D)	Erysiphe polygoni Macrophoma mangiferae
118.	Blister blight of tea is caused by (A) Cephaleuros mycoidea (C) Poria hypolateritia	(B) (D)	Exobasidium vexans Botryodiplodia theobromae
119.	<ul><li>Which one of the following is not a component</li><li>(A) Susceptible host</li><li>(C) Favourable environment</li></ul>	of 'diseas (B) (D)	e triangle' Suppressive soil Virulent pathogen
120.	Stem gall of coriander is caused by (A) Protomyces macrosporus (C) Taphrina deformans	(B) (D)	Agrobacterium tumefaciens Agrobacterium radiobacter
121.	Hypogeal type of seed germination occur in (A) French Bean (C) Bitter gourd	(B) (D)	Pea All of these
122.	Varietal purity is checked by (A) Germination test (C) Grow out test	(B) (D)	Vigour test None of these
123.	Seed priming improves the (A) Longevity of seed (C) Colour of the seed	(B) (D)	Vigour of seed All of these
124.	Physical dormancy caused by hard seed coat is (A) Stratification (C) Steeping	overcome (B) (D)	by Scarification Fluid drilling
125.	Desiccant used for drying of seed is (A) Cellulose (C) Sillica gel	(B) (D)	Wood ash Activated clay
126.	Safe seed moisture content for sealed storage is (A) 4-8 % (C) < 4%	(B) (D)	8-12 % None of these
127.	Acid soil can be amended with the help of (A) Lime (C) None	(B) (D)	FYM Both
128.	Basalt is a rock (A) Igneous (C) Metamorphic	(B) (D)	Sedimentary Mixture of all

129.	Which (A) (C)	n of the following microbes involve in the nitr Nitrsomonas Both	rificati (B) (D)	on process? Nitrobactor None
130.	The ra (A) (C)	unge of usefulness of tensiometers is between 0-1.0 bar 0-0.6 bar	(B) (D)	0-0.8 bar 0-0.33 bar
131.	Vascu (A) (C)	lar – arbuscular mycorrhiza (VAM) is known Nitrogen fixation Sulphur oxidation	for; (B) (D)	Uptake of phosphorus None of these
132.	Khaira (A) (C)	a disease of rice is caused due to deficiency o Mn Fe	f (B) (D)	Zn N
133.	Bone (A) (C)	meal is well suited for Alkaline soil Acid soil	(B) (D)	Neutral soil All of these
134.	Single (A) (C)	superphosphate contains : $20\% \ P_2O_5$ $10\text{-}46\% \ P_2O_5$	(B) (D)	16-18 % P <sub>2</sub> O <sub>5</sub> 20-25% P <sub>2</sub> O
135.	Epipeo (A) (C)	don is a diagnostic Surface horizon Both A & B	(B) (D)	Sub-surface horizon None of these
136.	At wh	at PF wilting percentage arrives		
	(A) (C)	4.2 5.0	(B) (D)	4.5 6.0
137.	Petrog (A) (C)	genesis which is the study of the Description of rocks Texture of the rocks	(B) (D)	Origin of rocks Density of rocks
138.	Three (A) (C)	particles have diameters of 0.5, 1.5, and 0.15 Sand, silt, and clay Sand, sand and sand	(B) (D)	The three particles are Sand, gravel, and silt Silt, silt, and clay
139.	The ro (A) (C)	oot growth is drastically reduced when Oxyge 20 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute 40 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute	en Diff (B) (D)	fusion Rate (ODR) is decreases to about $30 \times 10^{-8} \text{ g/cm}^2/\text{minute}$ $50 \times 10^{-8} \text{ g/cm}^2/\text{minute}$
140.	The av	vailability of plant nutrients are more at a pH	range	of 6-7 except
	(A) (C)	P B	(B) (D)	K Mo
141.	Montr	norillonite has higher cation exchange capaci	ty (CI	EC) in comparison to
	(A) (C)	Kaolinite Both of these	(B) (D)	Illite None of these

142.	In wh	ich soil structure infiltration, permeability an	d aera	tion are good
	(A) (C)	Platy Block like	(B) (D)	Prism like Sphere like (granular)
143.		narmful effect of continuous application of someon of	ewage	water over several years may result in
	(A) (C)	Cd P	(B) (D)	N Ca
144.	Irriga	tion water quality is evaluated based upon		
	(A)	Total salt content, sodium and specific ion toxicities	` /	pH of the water
	(C)	Acidity of the water	(D)	Ca content of the water
145.	-	ge coloured varieties in carrot is rich source o		
	(A) (C)	Carotene Anthocyanine	(B) (D)	Lycopene None of these
146.		ectare seed rate of broad bean is	(P)	22.42.1
	(A) (C)	20-30 kg 50-60 kg	(B) (D)	30-40 kg 70-100 kg
147.	Potato	o is mainly propagated by		
	(A)	Tuber Seeds	(B)	Corm Selts
	(C)		(D)	
148.	Types (A)	s of vegetable gardening followed on the Dal Floating garden	Lake (B)	of the Kashmir Valley is Hydroponics
	(C)	Kitchen garden	(D)	None of these
149.		h of the following is best for vegetable cultive		
	(A) (C)	Sandy soil Clay loam soil	(B) (D)	Sandy loam soil Clay soil
150	` ′	•	` /	Clay Soli
150.	-	d variety of chilli recommended for cultivation Punjab Lal	on is (B)	CH-I
	(C)	Punjab Surkh	(D)	None of the above
151.	Marg	inal physical product (MPP) where P=produc	tion, a	and X=input, is equal to
	(A)	$\Delta P/\Delta X$ $P/X$	(B)	$\Delta X/\Delta P$ None of these
	(C)	r/A	(D)	None of these
152.		ich relation, an increase or a decrease in production of the other inversely	luction	of one product affect the
	(A)	Supplementary	(B)	Joint product
1.55	(C)	Competitive	(D)	Complementary
153.	The V (A)	World Trade Organization (WTO) is the succe ITO	essor to (B)	o GATT
	(C)	UNCTAD	(D)	IMF

154.		h of the following is the apex bank for agricu			
	(A) (C)	RBI NABARD	(B)		SIDBI
155.	` /	nand curve measures	(D)	A.	SBI
133.	(A)	Buyer's willingness to pay	(B)	Actual the pro	price a buyer must pay to get
	(C)	Difference between a buyer's willingness to pay and the actual price of the product	(D)	All of	
156.	Consu	umer surplus is			
	(A)	a buyer's willingness to pay plus the price	(B)		ice of the product minus the s willingness to pay
	(C)	when the buyer's willingness to pay and the price of the product are equal	(D)		r's willingness to pay minus the
157.	Accor	rding to the law of demand			
	(A)	there is a positive relationship between quantity demanded and price	(B)	as the j	price rises, demand will shift to
	(C)	there is a negative relationship between quantity demanded and price	(D)	as the j the rigi	price rises, demand will shift to
158.	Margi	inal utility signifies			
	(A)	utility from first unit	(B)		from last unit
	(C)	utility from additional unit	(D)	utility	from third unit
159.	Nati	ional Income means			
	(A)	Income of the Government	(B)	•	measure of the overall annual f goods and services in an
	(C)	Value of the fixed wealth in an economy	(D)	Aggreg	gate of the earnings of working an economy
160.	Intern	nal rate of return (IRR) is that rate at which N	et Pres	sent valu	e is
	(A)	Positive	(B)	Negati	
	(C)	Zero	(D)	None o	of these
161.		esidual left with the farmers after meeting his rements, social and religions payments is call		y consur	mption, farm
	(A)	Marketed surplus	(B)		table surplus
	(C)	Producer Surplus	(D)	Consu	mer Surplus
162.	If the	NPW is zero, then B/C ratio is			
	(A)	>1	(B)		<1
	(C)	= 1	(D)		= 0
163.	A mai	rket characterized by large number of sellers	and bu	ıyers and	l homogenous product is known
	as				
	(A)	Monopoly	(B)	Oligop	•
	(C)	Perfect	(D)	Monop	polistic
164.		and for goods which are needed for further pr			
	(A)	Derived Demand	(B)		omous demand
	(C)	Direct Demand	(D)	All of	tnese

165.	Which one of the (A) Diversifica (C) Contract sa		e to reduce the (B) (D)	e risk? Hedging Monoculture	
166.	Marginal product (A) Addition r use of an a		by the (B)	Average production per use All of these	unit of input
167.	addition in	-			
	<ul><li>(A) Troposphe</li><li>(C) Mesospher</li></ul>	ere	(B) (D)	Stratosphere Ionosphere	
168.	Which layer of the (A) Troposphe (C) Mesospher		verage tempe (B) (D)	rature? Stratosphere Ionosphere	
169.	The value of Envi (A) - 6.5 °C / k (C) 5.5 °C / kn		ven as (B) (D)	+ 6.5 °C / km 5.0°C / km	
170.	Wind direction is (A) From when (C) It touches	re it comes	(B) (D)	Where it goes A and C both are correct	
171.	Vertical distributi (A) $10^{-2}$ to $10^{1}$ (C) $10^{-2}$ to $10^{3}$		(B) (D)	10 <sup>-2</sup> to 10 <sup>2</sup> m 10 <sup>-2</sup> to 10 <sup>4</sup> m	
172.	Name the most in (A) Temperatu (C) Cloud Cov		(B) (D)	Rainfall Atmospheric Pressure	
173.		also known as iron rust) of application of nitrogen infection	of rice is cause (B) (D)	ed due to: Deficiency of zinc Iron deficiency	
174.	Lysine is a limiting (A) Cereals (C) Oilseeds	ng amino acid in:	(B) (D)	Pulses Green vegetables	
175.	Which among the (A) Paraquat (C) Butachlor	following herbicides is no	on-selective h (B) (D)	erbicide? Alachlor Atrazine	
176.	Berseem seed is to (A) Rhizobium (C) Rhizobium	meliloti	(B) (D)	Rhizobium lupini Rhizobium Japonicum	
177.	Conversion of AL (A) Photolysis (C) Photosyntl		(B) (D)	Photo phosphorylation Photorespiration	
178.	Deficiency of who (A) Sulphur (C) Phosphoru	ich essential plant nutrient	leads to 'pop (B) (D)	pod in groundnut': Calcium Boron	

179.	Which	h among the following weeds causes dropsy	disease	e in human beings:
	(A)	Pluchea lanceolata	(B)	Digera arvensis
	(C)	Parthenium hysterophorus	(D)	Argemone mexicana
180.	Roots	absorb water from soil:		
100.	(A)	Actively	(B)	Passively
	(C)	Both actively and passively	(D)	None of these
101	` '		( )	
181.		ower belongs to family:	(D)	Augtracoac
	(A)	Cruciferae Malanaga	(B)	Austraceae
	(C)	Malvaceae	(D)	Poaceae
182.		oval of uniform thin layer of soil by the action		
	(A)	Splash erosion	(B)	Sheet erosion
	(C)	Rill erosion	(D)	Gully erosion
183.	Majo	r source of water used by plants is:		
	(A)	Capillary water	(B)	Hygroscopic water
	(C)	Gravitational water	(D)	Inter space water
184.	Parth	enium hysterophorus (Congress grass) can be	e contr	rolled by:
10	(A)	Chrysomella spp.	(B)	Dactylopius tomentosus
	(C)	Zygogramma bicolarata	(D)	Neochetina spp.
105	` ′		` ′	
185.	-	y shedding of buds and bolls occurs in cotton		
	(A)	Nitrogen deficiency in soil	(B)	Phosphorus deficiency in soil
	(C)	Magnesium deficiency in soil	(D)	Water stress at bud formation stage
186.	_	rrigation is most suited to:		
	(A)	Acid soil	(B)	Alkaline soil
	(C)	Saline soil	(D)	All of these
187.	The te	erm 'LEISA' is related to:		
	(A)	Organic farming	(B)	Inorganic farming
	(C)	Natural farming	(D)	All of these
188.	Light	intensity at which photosynthesis and respira	ation a	re equal is known as:
	(A)	Light compensation point	(B)	Light saturation point
	(C)	Net photosynthesis	(D)	None of these
189.	` ′	h type of maize is mainly grown in India?	` ′	
109.		Dent corn	(B)	Waxy corn
	(A) (C)	Flint corn	(D)	Sweet corn
	` ′		(D)	Sweet com
190.		la is a group of plants belonging to:		
	(A)	Mustard	(B)	Safflower
	(C)	Castor	(D)	Vegetables
191.	One h	na cm of water is equal to:		
	(A)	1000 tonnes of water	(B)	100,000 litres of water
	(C)	10 tonnes of water	(D)	10,000 litres of water
192.	Unde	r stress conditions, which amino acid is accur	mulate	d in plants:
	(A)	Methionine	(B)	Tryptophan
	(C)	Proline	(D)	Phenyl alanine
	` /		` /	•

193.	(A) Aeschynomene (C) Sesabania acule		
194.	Stomata closing can be (A) Kaoline (C) 2,4-D	induced by: (B) (D)	•
195.	Most damaging single in (A) High moisture con (C) Low moisture con (C)	` '	) High temperature
196.	Instrument used for me (A) Anemometer (C) Psycrometer	asuring solar radiation is: (B) (D)	· · · · · · · · · · · · · · · · · · ·
197.	Attraction of water mol (A) Adhesion (C) Capillary force	ecules towards soil particles is: (B) (D)	
198.	The critical slope for so (A) 1% (C) 3%	oil erosion is: (B) (D)	
199.	The instrument used fo (A) Lysimeter (C) Odometer	r measuring depth of water table (B) (D)	) Piezometer
200.	Sesame belongs to fam (A) Poaceae (C) Pediliaceae	ily: (B) (D)	

No.	(		
1.	Temperate Forests of the Western Himalayas are t (A) Abies spp (C) Quercus spp.	he Clii (B) (D)	natic Climax of the following: Cedrus spp. Betula spp
2.	The yield of forest is regulated on the basis of volu (A) Von Mantel's formula (C) Annual coups	ume by (B) (D)	vusing following: Permanent allotment method Periodic block method
3.	Widely accepted Classification of Forest Types of (A) Climate (C) Ecology	India (B) (D)	is based upon: Physiography Composition
4.	Field planting season for poplar tree is (A) Winter (C) Rainy	(B) (D)	Summer Throughout the year
5.	Sulphate navel stores are by-products of the follow (A) Soda pulping (C) Kraft pulping	ving pu (B) (D)	ulping process: Sulphate pulping None of the above
6.	Ghatti gum is obtained from: (A) Sterculia ureus (C) Anogeissus latifolia	(B) (D)	Astragalus spp Acacia arabica
7.	Maximum segregation is observed in: (A) $F_1$ (C) $F_3$	(B) (D)	F <sub>2</sub> F <sub>4</sub>
8.	Single seed descent method is a modification of: (A) Pedigree method (C) Mass selection	(B) (D)	Bulk method F <sub>4</sub>
9.	Vegetatively propagated crops are usually: (A) Homozygous (C) Both A and B	(B) (D)	Heterozygous Apomictic
10.	The most commonly used breeding scheme is: (A) Back cross method (C) Pedigree method	(B) (D)	Bulk method Mass selection
11.	Landraces are very good sources of genes for: (A) high yield (C) Both (A) and (B)	(B) (D)	adaptability None of these
12.	Variation within a pureline is due to (A) Genetic causes (C) Both (A) and (B)	(B) (D)	Environment None of these

Question

13.	Transgenic plants are being cultivated in In (A) Brinjal (C) Cotton	dia in:  (B) Wheat  (D) Soybean
14.	Cotton and pigeonpea are: (A) Cross pollinated (C) Often cross pollinated	<ul><li>(B) Self pollinated</li><li>(D) Apomictic</li></ul>
15.	Which of the following has been used for in (A) Tift 23 A (C) Milo	nducing male sterility in Bajra?  (B) H. petiolaris  (D) T. timopheevi
16.	TGMS and PGMS systems of male sterility (A) Wheat (C) Rice	are available in:  (B) Sorghum  (D) Bajra
17.	Centre of origin of <i>Gossypium herbaceum</i> (A) North America (C) Africa	is: (B) South America (D) India
18.	Golden rice is related to enhanced: (A) pro-vitamin A (C) Zn	(B) Mg (D) Cu
19.	Genetic disassortative mating will result in: (A) Reduced homozygosity (C) More inbreeding depressions	(B) Increased homozygosity (D) None of these
20.	One map unit is equal to: (A) 1% recombination between genes (C) 50% recombination between genes	<ul><li>(B) 100% recombination between genes</li><li>(D) 10% recombination between genes</li></ul>
21.	If recombination occurs before the chromo will be:  (A) 100  (C) 25	(B) 50 (D) 0
22.	Which of following mechanisms does not p (A) Dicliny (C) Dichogamy	oromotes cross pollination:  (B) Chasmogamy  (D) Self-incompatibility
23.	Which of the following can be considered a (A) Extra-nuclear inheritance (C) Incomplete dominance	(B) Multiple alleles (D) All of these
24.	Upper limit of crossing over between two g (A) 100 % (C) 25 %	genes is:  (B) 50 %  (D) 75 %
25.	Bacterial artificial chromosome may be use (A) c-DNA library (C) Tissue specific library	ed for the construction of:  (B) Genomic library  (D) All of these

26.	Experby:	riment that unambiguously demonstrated th	at DN	A is the genetic material was conducted
	(A) (C)	Watson and Crick Fred Griffith	(B) (D)	Hershey and Chase Avery, MacLeod and McCarty
27.	Whic	h of the following is not an auxin:		
	(A) (C)	Indole acetic acid Kinetin	(B) (D)	2,4-D Naphthalene acetic acid
28.		n of cytoplasm from two species and nucopment of:	lear go	enes from any one species leads to the
	(A)	Cybrid	(B)	Somatic hybrid
	(C)	Protoplast	(D)	None of these
29.	Polyn	nerase chain reaction (PCR) was invented by	<b>'</b> :	
	(A)	Rosalind Franklin	(B)	Arthur Korenburg
	(C)	Watson and Crick	(D)	K Mullis
30.	Whic	h of the following is not a "direct gene transf	fer" me	ethod:
	(A)	Liposome encapsulation	(B)	Microinjection
	(C)	Agrobacterium	(D)	Particle bombardment
31.	Whic	h of the following fruits is a rich source of vi	itamin	C?
	(A)	Apple	(B)	Mango
	(C)	Aonla	(D)	Papaya
32.	Mulcl	hing is helpful in		
	(A)	Moisture conservation	(B)	Weed control
	(C)	Both A & B	(D)	Neither A nor B
33.	Whic	h of the following varieties of apple is a poll	inizer?	
	(A)	Red Chief	(B)	Golden Delicious
	(C)	Royal Delicious	(D)	Red Delicious
34.	Whic	h of the following varieties of mango is suita	ble for	high density planting?
	(A)	Neelum	(B)	Langra
	(C)	Alphonso	(D)	Amrapalli
35.	Whic	h fruit crop is suitable for arid regions?		
55.	(A)	Apple	(B)	Ber
	(C)	Banana	(D)	Pineapple
36.	Whic	h system of planting is most suitable for slop	py lan	ds in hilly areas?
	(A)	Contour	(B)	Square system
	(C)	Hexagonal	(D)	Rectangular
37.	Spons	gy tissue is a physiological disorder of		
	(A)	Mango	(B)	Guava
	(C)	Apple	(D)	Papaya

38.	Which	PGR is commonly used for rooting initiation	n in ste	em cuttings?
	(A)	ABA	(B)	2, 4-D
	(C)	IBA	(D)	IAA
20	*****			
39.		among the following is an aggregate fruit	(D)	G. 1
	(A)	Pineapple	(B)	Strawberry
	(C)	Pomegranate	(D)	Grape
40.	Amon	g these fruit crops, the richest source of Fe is		
	(A)	Banana	(B)	Ber
	(C)	Jamun	(D)	Karonda
	` ′		` ′	
41.		of following fruit is most suitable for jelly n		
	(A)	Apple	(B)	Banana
	(C)	Ber	(D)	Guava
42.	Most o	of apple varieties have the chilling requirement	nt of	
	(A)	2000-3000 hrs.	(B)	1000-1500 hrs
	(C)	100-500 hrs.	(D)	500-1000 hrs.
	(C)	100-500 ms.	(D)	300-1000 m/s.
43.	Which	of the following nematode is kidney shaped		
		Heterodera	(B)	Rotylenchus
	(C)	Pratylenchus	(D)	Xiphinema
44.	A caria	es of transverse depressions on the cuticle of	namat	ode is:
77.	(A)	Annulations	(B)	Appendages
	(A) (C)	Striae	(D)	None of these
	(C)	Strac	(D)	None of these
45.	Transr	mission of grape vine fan leaf virus is by nem	atode:	
	(A)	Radopholus similus	(B)	(B) Ditylenchus angustus
	(C)	Anguina tritici	(D)	Xiphinema index
46.	Which	of the following is nematicide:		
то.		_	(D)	Matalanul
	(A)	Dinocap Tridomorph	(B)	Metalaxyl None of these
	(C)	Tridemorph	(D)	None of these
47.	Anguir	na tritici causes:		
	(A)	Molya disease of wheat	(B)	Ear cockle disease of wheat
	(C)	Root knot of vegetables	(D)	All of these
48.	Which	of the following is a piercing organ in nema	toda:	
40.	(A)	Haustorium	(B)	Appressorium
	(A) (C)	Stylet	(D)	None of these
	(C)	Stylet	(D)	None of these
49.	Sclero	tinia sclerotiorum survives in soil in the form	n of:	
	(A)	Oospore	(B)	Sclerotia
	(C)	Basidiospore	(D)	Perithecia

50.		famine was caused due to:	(D)	D 111 0 1			
	(A)	Early blight of potato	(B)	Downy mildew of onion			
	(C)	Late blight of potato	(D)	Downy mildew of grapes			
51.		and smut fungi belong to:					
	(A)	Zygomycota	(B)	Basidiomycota			
	(C)	Ascomycota	(D)	Oomycota			
52.	Whip	otail of cauliflower is due to					
	(A)	Oxygen deficiency	(B)	Water deficiency			
	(C)	Mo deficiency	(D)	Zn deficiency			
53.	Citru	s canker is caused by					
	(A)	Bacteria	(B)	Nematode			
	(C)	Fungi	(D)	Algae			
54.	Whic	ch one of the following is not a biological cor	ntrol ag	ent:			
	(A)	Trichoderma	(B)	Pseudomonas			
	(C)	Paecilomyces	(D)	Xanthomonas			
55.	Gene	for Gene hypothesis was given by					
	(A)	Anton de Bary	(B)	H.H. Flor			
	(C)	P. M.A. Millardet	(D)	T.J. Burrill			
56.	Cadang-Cadang disease of coconut is caused by						
	(A)	Fungi	(B)	Bacteria			
	(C)	Viroid	(D)	Nematode			
57.	Components of bordeux mixture are						
	(A)	Lime, iron sulphate, water	(B)	Lime, ferrous sulphate, water			
	(C)	Lime, copper sulphate, water	(D)	Lime, calcium chloride, water			
58.		sportation of potato tuber for seed purpose is a due to the presence of	not all	owed from Darjeeling hills to North			
	(A)	Synchytrium endobioticum	(B)	Rhizoctonia solani			
	(C)	Sclerotinia rolfsii	(D)	Sclerotinia sclerotiorum			
59.	Albugo candida survives as						
	(A)	Ascospores	(B)	Basidiospores			
	(C)	Pycniospores	(D)	Oospores			
60.	Which one of the following chemical is most effective in managing downy mildew diseases:						
	(A)	Dinocap	(B)	Metalaxyl			
	(C)	Wettable sulphur	(D)	Tetracycline			
61.	Moko	Moko disease of banana is caused by					
	(A)	Colletotrichum gloeosporioides	(B)	Pseudomonas musae			
	(C)	Colletotrichum musae	(D)	Ralstonia solanacearum			
62.	Apot	hecium contains					
	(A)	Conidia	(B)	Basidiospores			
	(C)	Ascospores	(D)	Zoospores			
	\ /	1	\ /	1			

63.	Asexual fruiting bodies of an (A) Sporodochia (C) Sporangia	thracnose fungi are (B) (D)	Cleistothecia Acervuli
64.	In <i>Venturia inaequalis</i> , the act (A) Pseudothecium (C) Pycnium	csi and ascospores are forme (B) (D)	ed in Cleistothecium Acervulus
65.	Rust of rose is caused by (A) Puccinia spp. (C) Phakopsora spp.	(B) (D)	Uromyces spp. Phragmidium spp.
66.	Premature leaf fall of apple i (A) Marssonina coronario (C) Venturia inaequalis		Taphrina deformans None of these
67.	Powdery mildew of mango is (A) Olpidium mangiferae (C) Oidium mangiferae	s caused by (B) (D)	Erysiphe polygoni Macrophoma mangiferae
68.	Blister blight of tea is caused (A) Cephaleuros mycoide (C) Poria hypolateritia		Exobasidium vexans Botryodiplodia theobromae
69.	Which one of the following i  (A) Susceptible host  (C) Favourable environments	(B)	se triangle' Suppressive soil Virulent pathogen
70.	Stem gall of coriander is cau (A) Protomyces macrospo (C) Taphrina deformans		Agrobacterium tumefaciens Agrobacterium radiobacter
71.	Hypogeal type of seed germi (A) French Bean (C) Bitter gourd	nation occur in (B) (D)	Pea All of these
72.	Varietal purity is checked by (A) Germination test (C) Grow out test	(B) (D)	Vigour test None of these
73.	Seed priming improves the (A) Longevity of seed (C) Colour of the seed	(B) (D)	Vigour of seed All of these
74.	Physical dormancy caused by (A) Stratification (C) Steeping	y hard seed coat is overcome (B) (D)	e by Scarification Fluid drilling
75.	Desiccant used for drying of (A) Cellulose (C) Sillica gel	seed is (B) (D)	Wood ash Activated clay

76.	Safe so (A) (C)	eed moisture content for sealed storage is 4-8 % < 4%	(B) (D)	8-12 % None of these
77.	Acid s (A) (C)	oil can be amended with the help of Lime None	(B) (D)	FYM Both
78.	Basalt (A) (C)	is a rock Igneous Metamorphic	(B) (D)	Sedimentary Mixture of all
79.	Which (A) (C)	of the following microbes involve in the nitr Nitrsomonas Both	rificati (B) (D)	on process? Nitrobactor None
80.	The ra (A) (C)	nge of usefulness of tensiometers is between 0-1.0 bar 0-0.6 bar	(B) (D)	0-0.8 bar 0-0.33 bar
81.	Vascu (A) (C)	lar – arbuscular mycorrhiza (VAM) is known Nitrogen fixation Sulphur oxidation	for; (B) (D)	Uptake of phosphorus None of these
82.	Khaira (A) (C)	disease of rice is caused due to deficiency of Mn Fe	f (B) (D)	Zn N
83.	Bone 1 (A) (C)	neal is well suited for Alkaline soil Acid soil	(B) (D)	Neutral soil All of these
84.	Single	superphosphate contains:		
	(A) (C)	20% P <sub>2</sub> O <sub>5</sub> 10-46% P <sub>2</sub> O <sub>5</sub>	(B) (D)	16-18 % P <sub>2</sub> O <sub>5</sub> 20-25% P <sub>2</sub> O
85.	Epiped (A) (C)	don is a diagnostic Surface horizon Both A & B	(B) (D)	Sub-surface horizon None of these
86.	At wh	at PF wilting percentage arrives		
	(A) (C)	4.2 5.0	(B) (D)	4.5 6.0
87.	Petrog (A) (C)	enesis which is the study of the Description of rocks Texture of the rocks	(B) (D)	Origin of rocks Density of rocks
88.	Three (A) (C)	particles have diameters of 0.5, 1.5, and 0.15 Sand, silt, and clay Sand, sand and sand	mm. (B) (D)	The three particles are Sand, gravel, and silt Silt, silt, and clay

89.	The ro (A) (C)	oot growth is drastically reduced when Oxygo 20 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute 40 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute	en Diff (B) (D)	30 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute
90.	The a	vailability of plant nutrients are more at a pH	range	of 6-7 except
	(A) (C)	P B	(B) (D)	K Mo
91.	Mont	morillonite has higher cation exchange capac	ity (CI	EC) in comparison to
	(A) (C)	Kaolinite Both of these	(B) (D)	Illite None of these
92.	In wh	ich soil structure infiltration, permeability and	d aerat	ion are good
	(A) (C)	Platy Block like	(B) (D)	Prism like Sphere like (granular)
93.		armful effect of continuous application of s	ewage	water over several years may result in
	(A) (C)	Cd P	(B) (D)	N Ca
94.	Irriga	tion water quality is evaluated based upon		
	(A)	Total salt content, sodium and specific ion toxicities	(B)	pH of the water
	(C)	Acidity of the water	(D)	Ca content of the water
95.	Orang (A) (C)	ge coloured varieties in carrot is rich source o Carotene Anthocyanine	(B) (D)	Lycopene None of these
96.	Per he	ectare seed rate of broad bean is		
	(A) (C)	20-30 kg 50-60 kg	(B) (D)	30-40 kg 70-100 kg
97.	Potato (A) (C)	o is mainly propagated by Tuber Seeds	(B) (D)	Corm Selts
98.	Types (A) (C)	s of vegetable gardening followed on the Dal Floating garden Kitchen garden	Lake (B) (D)	of the Kashmir Valley is Hydroponics None of these
99.	Which (A) (C)	h of the following is best for vegetable cultive Sandy soil Clay loam soil	(B) (D)	Sandy loam soil Clay soil
100.	Hybri (A) (C)	d variety of chilli recommended for cultivation Punjab Lal Punjab Surkh	on is (B) (D)	CH-I None of the above

101.	Marg (A) (C)	inal physical product (MPP) where P=produc $\Delta P/\Delta X$ $P/X$	tion, a (B) (D)	and X=input, is equal to $\Delta X/\Delta P$ None of these
102.		nich relation, an increase or a decrease in production of the other inversely	uction	of one product affect the
	(A) (C)	Supplementary Competitive	(B) (D)	Joint product Complementary
103.	The V (A) (C)	World Trade Organization (WTO) is the succe ITO UNCTAD	essor to (B) (D)	O GATT IMF
104.	Whic	h of the following is the apex bank for agricu RBI	ltural o	credit in India?
105.	(A) (C) A der	NABARD mand curve measures	(B) (D)	A. SIDBI A. SBI
103.	(A)	Buyer's willingness to pay	(B)	Actual price a buyer must pay to get the product
	(C)	Difference between a buyer's willingness to pay and the actual price of the product	(D)	All of these
106.		imer surplus is	(D)	
	(A)	a buyer's willingness to pay plus the price	(B)	the price of the product minus the buyer's willingness to pay
	(C)	when the buyer's willingness to pay and the price of the product are equal	(D)	a buyer's willingness to pay minus the price
107.	Accor (A)	rding to the law of demand there is a positive relationship between quantity demanded and price	(B)	as the price rises, demand will shift to the left
	(C)	there is a negative relationship between quantity demanded and price	(D)	as the price rises, demand will shift to the right
108.	_	inal utility signifies	(D)	utility from lost unit
	(A) (C)	utility from first unit utility from additional unit	(B) (D)	utility from last unit utility from third unit
109.		ional Income means	( <del>-</del> )	
	(A)	Income of the Government	(B)	Money measure of the overall annual flow of goods and services in an economy
	(C)	Value of the fixed wealth in an economy	(D)	Aggregate of the earnings of working class in an economy
110.		nal rate of return (IRR) is that rate at which No		
	(A) (C)	Positive Zero	(B) (D)	Negative None of these
111.	The re	esidual left with the farmers after meeting his		y consumption, farm
	requii (A)	rements, social and religions payments is calle Marketed surplus	ed as (B)	Marketable surplus
	(C)	Producer Surplus	(D)	Consumer Surplus

112	If the	NDW is more than D/C matic is		
112.	(A)	NPW is zero, then B/C ratio is >1	(B)	<1
	(C)	= 1	(D)	=0
113.	A mai	rket characterized by large number of sellers	and bu	ayers and homogenous product is known
	(A) (C)	Monopoly Perfect	(B) (D)	Oligopoly Monopolistic
114.	Dema (A) (C)	and for goods which are needed for further properties Derived Demand Direct Demand	oducti (B) (D)	on is called as Autonomous demand All of these
115.	Which (A) (C)	h one of the following is not a measure to red Diversification Contract sales	(B) (D)	e risk? Hedging Monoculture
116.	Marginal (A)	inal product is  Addition made to total production by the use of an additional input  Total addition to the production by addition input use	(B) (D)	Average production per unit of input use All of these
117.	In wh (A) (C)	ich layer of the atmosphere there is a tempera Troposphere Mesosphere	ature in (B) (D)	nversion? Stratosphere Ionosphere
118.	Which (A) (C)	h layer of the atmosphere has lowest average Troposphere Mesosphere	tempe (B) (D)	erature? Stratosphere Ionosphere
119.	The v (A) (C)	ralue of Environmental lapse rate is given as - 6.5 °C / km 5.5 °C / km	(B) (D)	+ 6.5 °C / km 5.0°C / km
120.	Wind (A) (C)	direction is measured as – From where it comes It touches the face	(B) (D)	Where it goes A and C both are correct
121.	Vertic (A) (C)	cal distribution of microclimate is: 10 <sup>-2</sup> to 10 <sup>1</sup> m 10 <sup>-2</sup> to 10 <sup>3</sup> m	(B) (D)	10 <sup>-2</sup> to 10 <sup>2</sup> m 10 <sup>-2</sup> to 10 <sup>4</sup> m
122.	Name (A) (C)	e the most important weather element – Temperature Cloud Cover	(B) (D)	Rainfall Atmospheric Pressure
123.	'Khai (A) (C)	ra disease' (also known as iron rust) of rice is Excessive application of nitrogen Bacterial infection	(B) (D)	ed due to: Deficiency of zinc Iron deficiency
124.	Lysin (A) (C)	e is a limiting amino acid in: Cereals Oilseeds	(B) (D)	Pulses Green vegetables

125.	Which (A) (C)	n among the following herbicides is non-select Paraquat Butachlor	(B) (D)	erbicide? Alachlor Atrazine
126.	Berse (A) (C)	em seed is treated with:  Rhizobium meliloti  Rhizobium trifoli	(B) (D)	Rhizobium lupini Rhizobium Japonicum
127.	Conve (A) (C)	ersion of ADP to ATP is known as: Photolysis Photosynthesis	(B) (D)	Photo phosphorylation Photorespiration
128.	Defici (A) (C)	iency of which essential plant nutrient leads to Sulphur Phosphorus	o 'pop (B) (D)	pod in groundnut': Calcium Boron
129.	Which (A) (C)	n among the following weeds causes dropsy of Pluchea lanceolata Parthenium hysterophorus	lisease (B) (D)	in human beings: Digera arvensis Argemone mexicana
130.	Roots (A) (C)	absorb water from soil: Actively Both actively and passively	(B) (D)	Passively None of these
131.	Sunflo (A) (C)	ower belongs to family: <i>Cruciferae</i> <i>Malvaceae</i>	(B) (D)	Austraceae Poaceae
132.	Remo (A) (C)	val of uniform thin layer of soil by the action Splash erosion Rill erosion	of wa (B) (D)	ter is referred as: Sheet erosion Gully erosion
133.	Major (A) (C)	source of water used by plants is: Capillary water Gravitational water	(B) (D)	Hygroscopic water Inter space water
134.	Parth (A) (C)	enium hysterophorus (Congress grass) can be Chrysomella spp. Zygogramma bicolarata	(B) (D)	olled by: Dactylopius tomentosus Neochetina spp.
135.	Heavy (A) (C)	v shedding of buds and bolls occurs in cotton Nitrogen deficiency in soil Magnesium deficiency in soil	due to (B) (D)	: Phosphorus deficiency in soil Water stress at bud formation stage
136.	Drip i (A) (C)	rrigation is most suited to: Acid soil Saline soil	(B) (D)	Alkaline soil All of these
137.	The to (A) (C)	erm 'LEISA' is related to: Organic farming Natural farming	(B) (D)	Inorganic farming All of these
138.	Light (A) (C)	intensity at which photosynthesis and respira Light compensation point Net photosynthesis	tion ar (B) (D)	re equal is known as: Light saturation point None of these

139.	Which (A) (C)	n type of maize is mainly grown in India?  Dent corn  Flint corn	(B) (D)	Waxy corn Sweet corn
140.	Canol (A) (C)	a is a group of plants belonging to:  Mustard  Castor	(B) (D)	Safflower Vegetables
141.	One h (A) (C)	a cm of water is equal to: 1000 tonnes of water 10 tonnes of water	(B) (D)	100,000 litres of water 10,000 litres of water
142.	Under (A) (C)	stress conditions, which amino acid is accum Methionine Proline	nulated (B) (D)	l in plants: Tryptophan Phenyl alanine
143.	Stem (A) (C)	nodulation occurs in green manure crop of:  Aeschynomene afraspera  Sesabania aculeata	(B) (D)	Crotolaria juncea Vigna tunguiculata
144.	Stoma (A) (C)	ta closing can be induced by: Kaoline 2,4-D	(B) (D)	Linseed oil PMA
145.	Most (A) (C)	damaging single influence on storage life of s High moisture content Low moisture content	eeds is (B) (D)	s: High temperature Both (A) and (B)
146.	Instru (A) (C)	ment used for measuring solar radiation is: Anemometer Psycrometer	(B) (D)	Barograph Pyranometer
147.	Attrac (A) (C)	ction of water molecules towards soil particles Adhesion Capillary force	s is: (B) (D)	Surface tension Cohesion
148.	The cr (A) (C)	ritical slope for soil erosion is:  1% 3%	(B) (D)	2% 5%
149.	The in (A) (C)	nstrument used for measuring depth of water t Lysimeter Odometer	able is (B) (D)	
150.	Sesan (A) (C)	ne belongs to family: Poaceae Pediliaceae	(B) (D)	Papilionoideae Ceasalpinoideae
151.	Water (A) (C)	inside the plant moves through: Phloem Fibre cells	(B) (D)	Xylem All of these
152.	` ′	testing seed, the grow out test is conducted to Genetic purity Physical purity	` ′	

153.	Optimum seed rate (kg/ha) of soybean is: (A) 50-60 (C) 80-90	(B) (D)	70-80 100-110
154.	Which chemical causes Finger leaf disease is (A) 2,4-D (C) Boron	` ′	Mancozeb Acephate
155.	Cycocel is a: (A) Auxin (C) Cytokinin	(B) (D)	Abscisic acid Growth retardant
156.	Which among the following is the most seve (A) Rill (C) Sheet	` /	
157.	Enzyme responsible for carboxylation in C <sub>3</sub> (A) Ribulose diphosphate dehydrogenase (C) Ribulose-1,5-biphosphate carboxylas	type plants is	•
158.	Which among the following is a frost tolerar (A) Kranti (C) RH 0749	` ′	
159.	Contaminants in cotton are known as <ul> <li>(A) Dirt</li> <li>(C) Motes</li> </ul>	(B) (D)	Inert matter None of these
160.	In north India, sugarcane is mostly used with (A) Two bud setts (C) Four bud setts	` ′	
161.	Major groundnut producing state in India is: (A) Andhra Pradesh (C) Maharastra	` ′	Gujarat Tamil Nadu
162.	Photoperiodically, wheat is: (A) Short day plant (C) Long day plant	(B) (D)	Day neutral plant Intermediate
163.	The inflorescence of sugarcane is known as: (A) Panicle (C) Racemose	` ′	Arrow Tiller
164.	Which among the following is a mycoherbic (A) Collego (C) Bromacil	` ′	Valour Metribuzin
165.	Name of the insect Order in which (in general nectar feeder/sap suckers:  (A) Orthoptera  (C) Neuroptera	` ′	
166.	Which insecticide formulation consists of an needs to be diluted with water prior to applic (A) Wettable powder (C) Water dispersible powder	ctive ingredie	• •

167.		ch of the following characteristics do imm They are all plant feeders	_	dopteran and Coleopteran insects share? They are all found in the soil
	(A) (C)	They are all called nymphs	(B) (D)	They all have biting and chewing mouthparts
168.	Sumi	mer diapause is known as		
	(A)	Hibernation	(B)	Overwintering
	(C)	Aestivation	(D)	None of these
169.	The s	scientific name of the Italian honey bee is	S	
	(A)	Apis mellifera	(B)	Apis indica
	(C)	Apis dorsata	(D)	Apis florae
170.	The l	arval stage is predatory whereas the adul	lts are pollir	nator in case of
	(A)	Syrphid	(B)	Coccinellid
	(C)	Chrysopa	(D)	All of these
171.	The o	opening on an arthropod body surface that	at allows for	r air transfer is called:
	(A)	Spiracle	(B)	Trachea
	(C)	Tracheoles	(D)	Alveoli
172.	excee			may be variable in number, but never insect in determining light intensities -
	(A)	Labrum	(B)	Ocelli
	(C)	Gena	(D)	Frons
173.	Hone	ey bees often sting		
	(A)	Single time	(B)	Two times
	(C)	Multiple times	(D)	All of these
174.		body temperature of insects normally following and hence, it is termed as	lows closely	y the temperature of the
	(A)	Hyperthermic	(B)	Warm blooded
	(C)	Cold hardiness	(D)	Poikilothermic
175.	Brow	n plant hopper is a major pest of		
		Cotton	(B)	Sunflower
	(C)	Mustard	(D)	Paddy
176.	The ı	use of synthetic pyrethroids has caused	serious outh	oreaks of
	(A)	Bihar hairy caterpillar	(B)	Whitefly
	(C)	Mango mealy bug	(D)	Mosquitoes
177.	The o	common name of <i>Chilo partellus</i> is		
1//.	(A)	Sugarcane stem borer	(B)	Sorghum shootfly
	(C)	Paddy stem borer	(D)	Maize stem borer
178.	` ′	•	` '	
1/8.	Wing (A)	s are absent in  Hymenoptera	(B)	Thysanura
	(A) (C)	Thysanoptera	(D)	Trichoptera
	(C)	1 11 y Salitopicia	(D)	THOMOPICIA

179.	Mouth (A) (C)	n parts in thrips belong to the type Chewing type Asymmetrical type	(B) (D)	Biting type Sucking type
180.	Triche (A) (C)	ogramma chilonis is Predator of mustard aphid Egg parasitoid of sugarcane borers	(B) (D)	Larval parasite of mealy bug Pupal parasitoid of cabbage butterfly
181.	The s (A)	systematic is the study of: genetic makeup of reproductive insects	(B)	relationships between groups of any size
	(C)	orders of insects only	(D)	morphological characters only
182.	Pest v (A) (C)	which occurs in isolated locations is known as Persistent pest Sporadic pest	(B) (D)	Seasonal pest Occasional pest
183.	Which (A) (C)	h is the pest of potato tuber in field and storag Mealy bug Potato aphid	(B) (D)	Cutworm Potato tuber moth
184.	In insecurve (A) (C)	ect population which have only one generatio is: S-shaped curve Both A and B	(B) (D)	J-shaped curve None of these
185.	The g (A) (C)	razing food web begins with: Detrivores Heterotrophs	(B) (D)	Carnivores Autotrophs
186.	Econo (A) (C)	omic injury level iseconor Half of the Greater than	mic thr (B) (D)	reshold level. Equal to Less than
187.	PRA s (A) (C)	stands for: Participatory Rural Appraisal Programme Review Appraisal	(B) (D)	Participatory Rapid Appraisal People's Rural Appraisal
188.	Nation (A) (C)	nal Agricultural Technology Project was start 1996 1994	ed in t (B) (D)	he year: 1998 2000
189.	Accor (A) (C)	rding to Prof. Mildred Hurton, the first trainin Family Country	g grou (B) (D)	up of human race is: Community Home
190.	Lt. Co (A) (C)	ol. Albert Mayer started a project called : Gurgaon Project Etawah Pilot Project	B. D.	Nilokheri Project Marthandom Project
191.	The w (A) (C)	ord communication is derived from: Greek word Russian word	(B) (D)	French word Latin word

192.	In the (A) (C)	e preparation of audio-visual aids, the principle Attractiveness, Brevity, Concreteness Attractiveness, Brevity, Clarity	(B) (D)	A', 'B', 'C' signifies: Attractiveness, Brevity, Colour Attitude, Brief, Communication		
193.		h among the following is a method of identify				
	(A)	Socio-metric method	(B)	Self –designated method		
	(C)	Informants' rating	(D)	All the above		
194.		h among the following models of communication:	ition is	called 'Mathematical Theory of		
	(A)	Berlo's Model	(B)	Shannon and Weaver's Model		
	(C)	Aristotle's Model	(D)	Leagan's Model		
195.	Single	e line of command was one of the main feat	ures of	<u>.</u>		
	(A)	EPP	(B)	NAEP		
	(C)	NARP	(D)	T & V		
196.	Extension Education Institute for North India is located at:					
	(A)	Haryana	(B)	Punjab		
	(C)	UP	(D)	Bihar		
197.	Extension Programme is a statement of situation, objectives, problems and:					
	(A)	Motivation	(B)	Attitude		
	(C)	Reasons	(D)	Solution		
198.	Which among the following entrepreneurs is timid and cautious in nature:					
	(A)	Fabian	(B)	Drone		
	(C)	Imitative	(D)	Innovative		
199.	Which among the following is a technique of idea generation:					
	(A)	Seminar	(B)	Conference		
	(C)	Brain storming	(D)	Incubation		
200.	The c	concept of venture capital was originated in:				
	(A)	India	(B)	Japan		
	(C)	U.K.	(D)	U.S.A.		

Sr. No.	Question		
1101			
1.	Rust and smut fungi belong to: (A) Zygomycota (C) Ascomycota	(B) (D)	Basidiomycota Oomycota
2.	Whiptail of cauliflower is due to (A) Oxygen deficiency (C) Mo deficiency	(B) (D)	Water deficiency Zn deficiency
3.	Citrus canker is caused by (A) Bacteria (C) Fungi	(B) (D)	Nematode Algae
4.	Which one of the following is not a biological con (A) Trichoderma (C) Paecilomyces	trol ag (B) (D)	ent: Pseudomonas Xanthomonas
5.	Gene for Gene hypothesis was given by (A) Anton de Bary (C) P. M.A. Millardet	(B) (D)	H.H. Flor T.J. Burrill
6.	Cadang-Cadang disease of coconut is caused by (A) Fungi (C) Viroid	(B) (D)	Bacteria Nematode
7.	Components of bordeux mixture are (A) Lime, iron sulphate, water (C) Lime, copper sulphate, water	(B) (D)	Lime, ferrous sulphate, water Lime, calcium chloride, water
8.	Transportation of potato tuber for seed purpose is India due to the presence of  (A) Synchytrium endobioticum  (C) Sclerotinia rolfsii	not all (B) (D)	owed from Darjeeling hills to North  Rhizoctonia solani Sclerotinia sclerotiorum
9.	Albugo candida survives as (A) Ascospores (C) Pycniospores	(B) (D)	Basidiospores Oospores
10.	Which one of the following chemical is most effect (A) Dinocap (C) Wettable sulphur	(B) (D)	n managing downy mildew diseases: Metalaxyl Tetracycline
11.	Moko disease of banana is caused by (A) Colletotrichum gloeosporioides (C) Colletotrichum musae	(B) (D)	Pseudomonas musae Ralstonia solanacearum
12.	Apothecium contains (A) Conidia (C) Ascospores	(B) (D)	Basidiospores Zoospores

13.	Asexu (A) (C)	nal fruiting bodies of anthracnose fungi are Sporodochia Sporangia	(B) (D)	Cleistothecia Acervuli
14.	In <i>Ven</i> (A) (C)	nturia inaequalis, the acsi and ascospores are Pseudothecium Pycnium	forme (B) (D)	d in Cleistothecium Acervulus
15.	Rust of (A) (C)	of rose is caused by  Puccinia spp.  Phakopsora spp.	(B) (D)	Uromyces spp. Phragmidium spp.
16.	Prema (A) (C)	ature leaf fall of apple is caused by  Marssonina coronaria  Venturia inaequalis	(B) (D)	Taphrina deformans None of these
17.	Powder (A) (C)	ery mildew of mango is caused by Olpidium mangiferae Oidium mangiferae	(B) (D)	Erysiphe polygoni Macrophoma mangiferae
18.	Bliste (A) (C)	r blight of tea is caused by Cephaleuros mycoidea Poria hypolateritia	(B) (D)	Exobasidium vexans Botryodiplodia theobromae
19.	Which (A) (C)	n one of the following is not a component of Susceptible host Favourable environment	diseas (B) (D)	e triangle' Suppressive soil Virulent pathogen
20.	Stem (A) (C)	gall of coriander is caused by  Protomyces macrosporus  Taphrina deformans	(B) (D)	Agrobacterium tumefaciens Agrobacterium radiobacter
21.	Hypos (A) (C)	geal type of seed germination occur in French Bean Bitter gourd	(B) (D)	Pea All of these
22.	Variet (A) (C)	tal purity is checked by  Germination test  Grow out test	(B) (D)	Vigour test None of these
23.	Seed J (A) (C)	priming improves the Longevity of seed Colour of the seed	(B) (D)	Vigour of seed All of these
24.	Physic (A) (C)	cal dormancy caused by hard seed coat is ove Stratification Steeping	rcome (B) (D)	by Scarification Fluid drilling
25.	Desic (A) (C)	cant used for drying of seed is Cellulose Sillica gel	(B) (D)	Wood ash Activated clay

26.	Safe s	seed moisture content for sealed storage is 4-8 %	(B)	8-12 %
	(C)	< 4%	(D)	None of these
27.		soil can be amended with the help of	( <b>D</b> )	EVA (
	(A) (C)	Lime None	(B) (D)	FYM Both
	` ′		(D)	Dotti
28.		t is a rock Igneous	(D)	Cadimentary
	(A) (C)	Metamorphic	(B) (D)	Sedimentary Mixture of all
• •	` ′	•		
29.	Whic (A)	h of the following microbes involve in the nitr Nitrsomonas	rificati (B)	on process? Nitrobactor
	(A) (C)	Both	(D)	None
20	` ′	6 61 64	,	
30.	(A)	ange of usefulness of tensiometers is between 0-1.0 bar	(B)	0-0.8 bar
	(C)	0-0.6 bar	(D)	0-0.33 bar
31.	Vaco	ular – arbuscular mycorrhiza (VAM) is knowr	o for:	
31.	(A)	Nitrogen fixation	(B)	Uptake of phosphorus
	(C)	Sulphur oxidation	(D)	None of these
32.	Khair	ra disease of rice is caused due to deficiency o	f	
J	(A)	Mn	(B)	Zn
	(C)	Fe	(D)	N
33.	Bone	meal is well suited for		
	(A)	Alkaline soil	(B)	Neutral soil
	(C)	Acid soil	(D)	All of these
34.	Singl	e superphosphate contains :		
	(A)	$20\% P_2O_5$	(B)	16-18 % P <sub>2</sub> O <sub>5</sub>
	(C)	$10-46\% P_2O_5$	(D)	20-25% P <sub>2</sub> O
35.	Epipe	edon is a diagnostic		
	(A)	Surface horizon	(B)	Sub-surface horizon
	(C)	Both A & B	(D)	None of these
36.	At wh	nat PF wilting percentage arrives		
	(A)	4.2	(B)	4.5
	(C)	5.0	(D)	6.0
37.	Petro	genesis which is the study of the		
	(A)	Description of rocks	(B)	Origin of rocks
	(C)	Texture of the rocks	(D)	Density of rocks
38.	Three	e particles have diameters of 0.5, 1.5, and 0.15	mm.	
	(A)	Sand, silt, and clay	(B)	Sand, gravel, and silt
	(C)	Sand, sand and sand	(D)	Silt, silt, and clay

39.	The r (A) (C)	root growth is drastically reduced when Oxygo 20 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute 40 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute	en Dif (B) (D)	fusion Rate (ODR) is decreases to about 30 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute 50 x 10 <sup>-8</sup> g/cm <sup>2</sup> /minute				
40.	The a	The availability of plant nutrients are more at a pH range of 6-7 except						
	(A) (C)	P B	(B) (D)	K Mo				
41.	Mont	morillonite has higher cation exchange capac	ity (C	EC) in comparison to				
	(A) (C)	Kaolinite Both of these	(B) (D)	Illite None of these				
42.	In wh	nich soil structure infiltration, permeability an	d aera	tion are good				
	(A) (C)	Platy Block like	(B) (D)	Prism like Sphere like (granular)				
43.		narmful effect of continuous application of s hment of	ewage	e water over several years may result in				
	(A) (C)	Cd P	(B) (D)	N Ca				
44.	Irriga	Irrigation water quality is evaluated based upon						
	(A)	Total salt content, sodium and specific ion toxicities	(B)	pH of the water				
	(C)	Acidity of the water	(D)	Ca content of the water				
45.	Orang (A) (C)	ge coloured varieties in carrot is rich source o Carotene Anthocyanine	f (B) (D)	Lycopene None of these				
46.	` ′	ectare seed rate of broad bean is	( )					
10.	(A) (C)	20-30 kg 50-60 kg	(B) (D)	30-40 kg 70-100 kg				
47.	Potate (A) (C)	o is mainly propagated by Tuber Seeds	(B) (D)	Corm Selts				
48.	Type: (A) (C)	s of vegetable gardening followed on the Dal Floating garden Kitchen garden	Lake (B) (D)	of the Kashmir Valley is Hydroponics None of these				
49.	Whic (A) (C)	th of the following is best for vegetable cultive Sandy soil Clay loam soil	(B) (D)	Sandy loam soil Clay soil				
50.	Hybri (A) (C)	id variety of chilli recommended for cultivation Punjab Lal Punjab Surkh	on is (B) (D)	CH-I None of the above				

(A) (C)	inal physical product (MPP) where P=produc $\Delta P/\Delta X$ $P/X$	(B) (D)	and $X=$ input, is equal to $\Delta X/\Delta P$ None of these
	action of the other inversely	uction	of one product affect the
(A) (C)	Supplementary Competitive	(B) (D)	Joint product Complementary
	` , ,		
(A) (C)	ITO UNCTAD	(B) (D)	GATT IMF
Whic	h of the following is the apex bank for agricu	ltural	credit in India?
(A)	RBI	(B)	A. SIDBI
. ,		(D)	A. SBI
		(D)	A stual price a huyer must pay to get
(A)	Buyer's willingness to pay	(B)	Actual price a buyer must pay to get the product
(C)	Difference between a buyer's willingness to pay and the actual price of the product	(D)	All of these
Consu	umer surplus is		
(A)	a buyer's willingness to pay plus the price	(B)	the price of the product minus the buyer's willingness to pay
(C)	when the buyer's willingness to pay and the price of the product are equal	(D)	a buyer's willingness to pay minus the price
		<i>(</i> = )	
(A)		(B)	as the price rises, demand will shift to the left
(C)	there is a negative relationship between quantity demanded and price	(D)	as the price rises, demand will shift to the right
Marg	inal utility signifies		-
(A)	utility from first unit	(B)	utility from last unit
(C)	utility from additional unit	(D)	utility from third unit
Natio	onal Income means		
(A)	Income of the Government	(B)	Money measure of the overall annual flow of goods and services in an
(C)	Value of the fixed wealth in an economy	(D)	economy Aggregate of the earnings of working class in an economy
Interr	nal rate of return (IRR) is that rate at which No	et Pres	sent value is
(A)	Positive	(B)	Negative
(C)	Zero	(D)	None of these
	<u> </u>		y consumption, farm
_			Madatalla samba
(A) (C)	Marketed surplus Producer Surplus	(D) (R)	Marketable surplus Consumer Surplus
	(C) In where production (A) (C) The V (A) (C) Whice (A) (C) A der (A) (C) Accoo (A) (C) Marg (A) (C) Nation (C) Interr (A) (C) The r requir (A)	In which relation, an increase or a decrease in production of the other inversely  (A) Supplementary (C) Competitive  The World Trade Organization (WTO) is the successory (A) ITO (C) UNCTAD  Which of the following is the apex bank for agricus (A) RBI (C) NABARD  A demand curve measures (A) Buyer's willingness to pay  (C) Difference between a buyer's willingness to pay and the actual price of the product  Consumer surplus is (A) a buyer's willingness to pay plus the price  (C) when the buyer's willingness to pay and the price of the product are equal  According to the law of demand (A) there is a positive relationship between quantity demanded and price (C) there is a negative relationship between quantity demanded and price  Marginal utility signifies (A) utility from first unit (C) utility from additional unit  National Income means (A) Income of the Government  (C) Value of the fixed wealth in an economy  Internal rate of return (IRR) is that rate at which Note (A) Positive (C) Zero  The residual left with the farmers after meeting his requirements, social and religions payments is called (A) Marketed surplus	In which relation, an increase or a decrease in production production of the other inversely  (A) Supplementary (B) (C) Competitive (D)  The World Trade Organization (WTO) is the successor to the following is the apex bank for agricultural (A) RBI (C) NABARD (D)  A demand curve measures (A) Buyer's willingness to pay (B)  (C) Difference between a buyer's willingness to pay and the actual price of the product  Consumer surplus is (A) a buyer's willingness to pay plus the price (B)  (C) when the buyer's willingness to pay and (D) the price of the product are equal  According to the law of demand (A) there is a positive relationship between (B) quantity demanded and price (C) there is a negative relationship between (D) quantity demanded and price (C) there is a negative relationship between (D)  National Income means (A) Utility from additional unit (D)  National Income of the Government (B)  (C) Value of the fixed wealth in an economy (D)  Internal rate of return (IRR) is that rate at which Net Prese (A) Positive (B) (C) Zero (D)  The residual left with the farmers after meeting his famil requirements, social and religions payments is called as (A) Marketed surplus (B)

62.	If the NPW is zero, then B/C ratio is							
	(A) (C)	>1 = 1	(B) (D)	<1 = 0				
63.	A mai	rket characterized by large number of sellers	and bu	nyers and homogenous product is known				
	(A) (C)	Monopoly Perfect	(B) (D)	Oligopoly Monopolistic				
64.	Dema (A) (C)	nd for goods which are needed for further properties Derived Demand Direct Demand	oductio (B) (D)	on is called as Autonomous demand All of these				
65.	Which (A) (C)	n one of the following is not a measure to red Diversification Contract sales	uce the (B) (D)	e risk? Hedging Monoculture				
66.	Margi (A) (C)	Addition made to total production by the use of an additional input  Total addition to the production by addition input use	(B) (D)	Average production per unit of input use All of these				
67.	In who (A) (C)	ich layer of the atmosphere there is a tempera Troposphere Mesosphere	ture in (B) (D)	nversion? Stratosphere Ionosphere				
68.	Which (A) (C)	h layer of the atmosphere has lowest average Troposphere Mesosphere	tempe (B) (D)	rature? Stratosphere Ionosphere				
69.	The va (A) (C)	alue of Environmental lapse rate is given as - 6.5 °C / km 5.5 °C / km	(B) (D)	+ 6.5 °C / km 5.0°C / km				
70.	Wind (A) (C)	direction is measured as – From where it comes It touches the face	(B) (D)	Where it goes A and C both are correct				
71.	Vertic (A) (C)	cal distribution of microclimate is: $10^{-2} \text{ to } 10^{1} \text{ m}$ $10^{-2} \text{ to } 10^{3} \text{ m}$	(B) (D)	10 <sup>-2</sup> to 10 <sup>2</sup> m 10 <sup>-2</sup> to 10 <sup>4</sup> m				
72.		the most important weather element – Temperature Cloud Cover	(B) (D)	Rainfall Atmospheric Pressure				
73.	'Khair (A) (C)	ra disease' (also known as iron rust) of rice is Excessive application of nitrogen Bacterial infection	(B) (D)	ed due to: Deficiency of zinc Iron deficiency				
74.	Lysino (A) (C)	e is a limiting amino acid in: Cereals Oilseeds	(B) (D)	Pulses Green vegetables				

75.	(A)	h among the following herbicides is no Paraquat	on-selective h (B)	Alachlor
	(C)	Butachlor	(D)	Atrazine
76.	Berse (A) (C)	em seed is treated with:  Rhizobium meliloti  Rhizobium trifoli	(B) (D)	Rhizobium lupini Rhizobium Japonicum
77.	(A)	ersion of ADP to ATP is known as: Photolysis	(B)	Photo phosphorylation
	(C)	Photosynthesis	(D)	Photorespiration
78.	Defic (A) (C)	iency of which essential plant nutrient Sulphur Phosphorus	leads to 'pop (B) (D)	pod in groundnut': Calcium Boron
79.	Whic	h among the following weeds causes of	dropsy disease	e in human beings:
	(A)	Pluchea lanceolata	(B)	Digera arvensis
	(C)	Parthenium hysterophorus	(D)	Argemone mexicana
80.	Roots	absorb water from soil:		
00.	(A)	Actively	(B)	Passively
	(C)	Both actively and passively	(D)	None of these
0.1	` ′		(-)	
81.		ower belongs to family:	(D)	Augtugoogo
	(A) (C)	Cruciferae Malvaceae	(B) (D)	Austraceae Poaceae
	` ′		` ′	
82.		oval of uniform thin layer of soil by the		
	(A)	Splash erosion	(B)	Sheet erosion
	(C)	Rill erosion	(D)	Gully erosion
83.	Majo	r source of water used by plants is:		
	(A)	Capillary water	(B)	Hygroscopic water
	(C)	Gravitational water	(D)	Inter space water
84.	Parth	enium hysterophorus (Congress grass)	) can be contr	olled by:
	(A)	Chrysomella spp.	(B)	Dactylopius tomentosus
	(C)	Zygogramma bicolarata	(D)	Neochetina spp.
0.5		,	` ′	• •
85.	-	y shedding of buds and bolls occurs in		
	(A)	Nitrogen deficiency in soil Magnesium deficiency in soil	(B)	Phosphorus deficiency in soil Water stress at bud formation stage
	(C)	e ,	(D)	water stress at oud formation stage
86.	_	irrigation is most suited to:	(D)	
	(A)	Acid soil	(B)	Alkaline soil
	(C)	Saline soil	(D)	All of these
87.	The te	erm 'LEISA' is related to:		
	(A)	Organic farming	(B)	Inorganic farming
	(C)	Natural farming	(D)	All of these
88.	Light	intensity at which photosynthesis and	respiration ar	e equal is known as:
	(A)	Light compensation point	(B)	Light saturation point
	(C)	Net photosynthesis	(D)	None of these

89.	Which (A) (C)	n type of maize is mainly grown in Indi Dent corn Flint corn	a? (B) (D)	Waxy corn Sweet corn
90.	Canola (A) (C)	a is a group of plants belonging to:  Mustard  Castor	(B) (D)	Safflower Vegetables
91.	One h (A) (C)	a cm of water is equal to: 1000 tonnes of water 10 tonnes of water	(B) (D)	100,000 litres of water 10,000 litres of water
92.	Under (A) (C)	stress conditions, which amino acid is Methionine Proline	accumulated (B) (D)	d in plants: Tryptophan Phenyl alanine
93.	Stem 1 (A) (C)	nodulation occurs in green manure crop Aeschynomene afraspera Sesabania aculeata	o of: (B) (D)	Crotolaria juncea Vigna tunguiculata
94.	Stoma (A) (C)	ta closing can be induced by: Kaoline 2,4-D	(B) (D)	Linseed oil PMA
95.	Most of (A) (C)	damaging single influence on storage li High moisture content Low moisture content	fe of seeds i (B) (D)	s: High temperature Both (A) and (B)
96.	Instrui (A) (C)	ment used for measuring solar radiation Anemometer Psycrometer	(B) (D)	Barograph Pyranometer
97.		tion of water molecules towards soil pa Adhesion Capillary force	articles is: (B) (D)	Surface tension Cohesion
98.	The cr (A) (C)	ritical slope for soil erosion is:  1% 3%	(B) (D)	2% 5%
99.	The in (A) (C)	strument used for measuring depth of Lysimeter Odometer	water table is (B) (D)	s known as: Piezometer Evaporimeter
100.	Sesam (A) (C)	ne belongs to family: Poaceae Pediliaceae	(B) (D)	Papilionoideae Ceasalpinoideae
101.	Water (A) (C)	inside the plant moves through: Phloem Fibre cells	(B) (D)	Xylem All of these
102.	While (A) (C)	testing seed, the grow out test is condu Genetic purity Physical purity	(B) (D)	rmine: Seed viability Yield potential

103.	Optimum seed rate (kg/ha) of soybean is: (A) 50-60 (C) 80-90	(B) (D)	70-80 100-110
104.	Which chemical causes Finger leaf disease in (A) 2,4-D (C) Boron	(B) (D)	Mancozeb Acephate
105.	Cycocel is a: (A) Auxin (C) Cytokinin	(B) (D)	Abscisic acid Growth retardant
106.	Which among the following is the most seven (A) Rill (C) Sheet	re form of so (B) (D)	oil water erosion? Gully Splash
107.	Enzyme responsible for carboxylation in C <sub>3</sub> t (A) Ribulose diphosphate dehydrogenase (C) Ribulose-1,5-biphosphate carboxylase	(B)	•
108.	Which among the following is a frost tolerant (A) Kranti (C) RH 0749	t variety of r (B) (D)	aya RH 781 Pusa Vijay
109.	Contaminants in cotton are known as (A) Dirt (C) Motes	(B) (D)	Inert matter None of these
110.	In north India, sugarcane is mostly used with (A) Two bud setts (C) Four bud setts	how many b (B) (D)	ouds? Three bud setts Single bud setts
111.	Major groundnut producing state in India is: (A) Andhra Pradesh (C) Maharastra	(B) (D)	Gujarat Tamil Nadu
112.	Photoperiodically, wheat is: (A) Short day plant (C) Long day plant	(B) (D)	Day neutral plant Intermediate
113.	The inflorescence of sugarcane is known as: <ul> <li>(A) Panicle</li> <li>(C) Racemose</li> </ul>	(B) (D)	Arrow Tiller
114.	Which among the following is a mycoherbici (A) Collego (C) Bromacil	(B) (D)	Valour Metribuzin
115.	Name of the insect Order in which (in general nectar feeder/sap suckers:  (A) Orthoptera  (C) Neuroptera	` ′	l stage is phytophagous and adults are Hemiptera Lepidoptera
116.	Which insecticide formulation consists of ac needs to be diluted with water prior to applicate (A) Wettable powder (C) Water dispersible powder	tive ingredie	

117.		ch of the following characteristics do immatu	_	
	(A) (C)	They are all plant feeders They are all called nymphs	(B) (D)	They are all found in the soil They all have biting and chewing
110	C	1 1		mouthparts
118.	Sumi (A)	mer diapause is known as  Hibernation	(B)	Overwintering
	(C)	Aestivation	(D)	None of these
110	, ,		(2)	Trone of these
119.		scientific name of the Italian honey bee is	(D)	Ania in Jian
	(A) (C)	Apis mellifera Apis dorsata	(B) (D)	Apis indica Apis florae
	, ,	•	` ′	
120.		larval stage is predatory whereas the adults a	-	
	(A)	Syrphid	(B)	Coccinellid
	(C)	Chrysopa	(D)	All of these
121.		opening on an arthropod body surface that all	lows fo	
	(A)	Spiracle	(B)	Trachea
	(C)	Tracheoles	(D)	Alveoli
122.	excee	t are located between the compound eyes ed three in number? Function appears to a le to form images		
	(A)	Labrum	(B)	Ocelli
	(C)	Gena	(D)	Frons
123.	Hone	ey bees often sting		
123.	(A)	Single time	(B)	Two times
	(C)	Multiple times	(D)	All of these
124.		body temperature of insects normally follows bunding and hence, it is termed as	closel	y the temperature of the
	(A)	Hyperthermic	(B)	Warm blooded
	(C)	Cold hardiness	(D)	Poikilothermic
125.	Brow	vn plant hopper is a major pest of		
145.	(A)	Cotton	(B)	Sunflower
	(C)	Mustard	(D)	Paddy
	, ,		` ′	•
126.		use of synthetic pyrethroids has caused serio		
	(A)	Bihar hairy caterpillar	(B)	Whitefly Magnitors
	(C)	Mango mealy bug	(D)	Mosquitoes
127.		common name of Chilo partellus is		
	(A)	Sugarcane stem borer	(B)	Sorghum shootfly
	(C)	Paddy stem borer	(D)	Maize stem borer
128.	Wing	gs are absent in		
	(A)	Hymenoptera	(B)	Thysanura
	(C)	Thysanoptera	(D)	Trichoptera

129.	Mouth (A) (C)	parts in thrips belong to the type Chewing type Asymmetrical type	(B) (D)	Biting type Sucking type
130.	Tricho (A) (C)	ogramma chilonis is Predator of mustard aphid Egg parasitoid of sugarcane borers	(B) (D)	Larval parasite of mealy bug Pupal parasitoid of cabbage butterfly
131.	The s (A)	ystematic is the study of: genetic makeup of reproductive insects	(B)	relationships between groups of any size
	(C)	orders of insects only	(D)	morphological characters only
132.	Pest w (A) (C)	which occurs in isolated locations is known as Persistent pest Sporadic pest	(B) (D)	Seasonal pest Occasional pest
133.	Which (A) (C)	is the pest of potato tuber in field and storag Mealy bug Potato aphid	e (B) (D)	Cutworm Potato tuber moth
134.	curve		-	
	(A) (C)	S-shaped curve Both A and B	(B) (D)	J-shaped curve None of these
135.	The gr	razing food web begins with:		
	(A) (C)	Detrivores Heterotrophs	(B) (D)	Carnivores Autotrophs
136.		mic injury level is econor		
	(A) (C)	Half of the Greater than	(B) (D)	Equal to Less than
137.	PRA s (A) (C)	tands for: Participatory Rural Appraisal Programme Review Appraisal	(B) (D)	Participatory Rapid Appraisal People's Rural Appraisal
138.	Nation	nal Agricultural Technology Project was start	ed in t	he year:
	(A) (C)	1996 1994	(B) (D)	1998 2000
139.	Accord (A)	ding to Prof. Mildred Hurton, the first training Family	g grou (B)	up of human race is:  Community
	(C)	Country	(D)	Home
140.	Lt. Co (A) (C)	l. Albert Mayer started a project called : Gurgaon Project Etawah Pilot Project	B. D.	Nilokheri Project Marthandom Project
141.	` ′	ord communication is derived from:	•	- <b>y</b>
141.	(A)	Greek word	(B)	French word
	(C)	Russian word	(D)	Latin word

142.	In the (A) (C)	preparation of audio-visual aids, the principle Attractiveness, Brevity, Concreteness Attractiveness, Brevity, Clarity	e of 'A (B) (D)	Attractiveness, Brevity, Colour Attitude, Brief, Communication		
143.	Which (A) (C)	among the following is a method of identify Socio-metric method Informants' rating	ring lea (B) (D)	nder? Self –designated method All the above		
144.	Comm	among the following models of communication:		•		
	(A) (C)	Berlo's Model Aristotle's Model	(B) (D)	Shannon and Weaver's Model Leagan's Model		
145.	Single (A)	line of command was one of the main featu EPP	res of: (B)	: NAEP		
	(C)	NARP	(D)	T & V		
146.	Extens	sion Education Institute for North India is loc	ated at	<u>:</u>		
	(A)	Haryana	(B)	Punjab		
	(C)	UP	(D)	Bihar		
147.	Extension Programme is a statement of situation, objectives, problems and:					
	(A)	Motivation	(B)	Attitude		
	(C)	Reasons	(D)	Solution		
148.		among the following entrepreneurs is timid				
	(A)	Fabian	(B)	Drone		
	(C)	Imitative	(D)	Innovative		
149.		among the following is a technique of idea a	-			
	(A)	Seminar Prain starming	(B)	Conference		
	(C)	Brain storming	(D)	Incubation		
150.		oncept of venture capital was originated in:	(D)	I		
	(A)	India	(B)	Japan		
	(C)	U.K.	(D)	U.S.A.		
151.	_	erate Forests of the Western Himalayas are th				
	(A)	Abies spp	(B) (D)	Cedrus spp. Betula spp		
	(C)	Quercus spp.	` /	**		
152.	-	eld of forest is regulated on the basis of volu	-	•		
	(A) (C)	Von Mantel's formula Annual coups	(B) (D)	Permanent allotment method Periodic block method		
1.50		•	` /			
153.		y accepted Classification of Forest Types of		•		
	(A) (C)	Climate Ecology	(B) (D)	Physiography Composition		
			(D)	Composition		
154.	_	planting season for poplar tree is	(D)	Summer		
	(A) (C)	Winter Rainy	(B) (D)	Summer Throughout the year		
	(C)	Kamy	(D)	i moughout the year		

155.	Sulphate navel stores are by-products of the followard (A) Soda pulping (C) Kraft pulping	wing pu (B) (D)	alping process: Sulphate pulping None of the above
156.	Ghatti gum is obtained from:  (A) Sterculia ureus  (C) Anogeissus latifolia	(B) (D)	Astragalus spp Acacia arabica
157.		(B) (D)	$egin{array}{c} F_2 \\ F_4 \end{array}$
158.	Single seed descent method is a modification of: (A) Pedigree method (C) Mass selection	(B) (D)	Bulk method F <sub>4</sub>
159.	Vegetatively propagated crops are usually: (A) Homozygous (C) Both A and B	(B) (D)	Heterozygous Apomictic
160.	The most commonly used breeding scheme is: <ul> <li>(A) Back cross method</li> <li>(C) Pedigree method</li> </ul>	(B) (D)	Bulk method Mass selection
161.	Landraces are very good sources of genes for: (A) high yield (C) Both (A) and (B)	(B) (D)	adaptability None of these
162.	Variation within a pureline is due to (A) Genetic causes (C) Both (A) and (B)	(B) (D)	Environment None of these
163.	Transgenic plants are being cultivated in India in: (A) Brinjal (C) Cotton	(B) (D)	Wheat Soybean
164.	Cotton and pigeonpea are: (A) Cross pollinated (C) Often cross pollinated	(B) (D)	Self pollinated Apomictic
165.	Which of the following has been used for inducin (A) Tift 23 A (C) Milo	g male (B) (D)	sterility in Bajra ? H. petiolaris T. timopheevi
166.	TGMS and PGMS systems of male sterility are as (A) Wheat (C) Rice	vailable (B) (D)	in: Sorghum Bajra
167.	Centre of origin of <i>Gossypium herbaceum</i> is: <ul> <li>(A) North America</li> <li>(C) Africa</li> </ul>	(B) (D)	South America India
168.	Golden rice is related to enhanced: (A) pro-vitamin A (C) Zn	(B) (D)	Mg Cu

169.	General (A) (C)	tic disassortative mating will result in: Reduced homozygosity More inbreeding depressions	(B) (D)	Increased homozygosity None of these
170.	One r (A) (C)	nap unit is equal to: 1% recombination between genes 50% recombination between genes	(B) (D)	100% recombination between genes 10% recombination between genes
171.		ombination occurs before the chromosome re	eplicat	tion, percentage of parental type gametes
	will b (A) (C)	e: 100 25	(B) (D)	50 0
172.	Which (A) (C)	h of following mechanisms does not promote Dicliny Dichogamy	s cross (B) (D)	s pollination: Chasmogamy Self-incompatibility
173.	Which (A) (C)	h of the following can be considered a case o Extra-nuclear inheritance Incomplete dominance	f non- (B) (D)	Mendelian inheritance ? Multiple alleles All of these
174.	Upper (A) (C)	r limit of crossing over between two genes is: 100 % 25 %	(B) (D)	50 % 75 %
175.	Bacte (A) (C)	rial artificial chromosome may be used for the c-DNA library Tissue specific library	(B) (D)	struction of: Genomic library All of these
176.	_	riment that unambiguously demonstrated that	at DN	A is the genetic material was conducted
	by: (A) (C)	Watson and Crick Fred Griffith	(B) (D)	Hershey and Chase Avery, MacLeod and McCarty
177.	Which (A) (C)	h of the following is not an auxin: Indole acetic acid Kinetin	(B) (D)	2,4-D Naphthalene acetic acid
178.	devel	n of cytoplasm from two species and nucl opment of:		
	(A) (C)	Cybrid Protoplast	(B) (D)	Somatic hybrid None of these
179.	Polyn (A) (C)	nerase chain reaction (PCR) was invented by Rosalind Franklin Watson and Crick	(B) (D)	Arthur Korenburg K Mullis
180.	` /	h of the following is not a "direct gene transfe	` ´	
-	(A) (C)	Liposome encapsulation  Agrobacterium	(B)	Microinjection Particle hombardment

181.	Which	of the following fruits is a rich source of vita	amin (	<b>C</b> ?
	(A) (C)	Apple Aonla	(B) (D)	Mango Papaya
182.	Mulch (A) (C)	ing is helpful in Moisture conservation Both A & B	(B) (D)	Weed control Neither A nor B
183.	Which (A) (C)	of the following varieties of apple is a pollir Red Chief Royal Delicious	(B) (D)	Golden Delicious Red Delicious
184.	Which (A) (C)	of the following varieties of mango is suitab Neelum Alphonso	(B) (D)	high density planting? Langra Amrapalli
185.	Which (A) (C)	fruit crop is suitable for arid regions? Apple Banana	(B) (D)	Ber Pineapple
186.	Which (A) (C)	system of planting is most suitable for slopp Contour Hexagonal	y land (B) (D)	s in hilly areas? Square system Rectangular
187.	Spong (A) (C)	y tissue is a physiological disorder of Mango Apple	(B) (D)	Guava Papaya
188.	Which (A) (C)	PGR is commonly used for rooting initiation ABA IBA	n in ste (B) (D)	em cuttings? 2, 4-D IAA
189.	Which (A) (C)	among the following is an aggregate fruit Pineapple Pomegranate	(B) (D)	Strawberry Grape
190.	Amon (A) (C)	g these fruit crops, the richest source of Fe is Banana Jamun	(B) (D)	Ber Karonda
191.	Which (A) (C)	of following fruit is most suitable for jelly n Apple Ber	naking (B) (D)	Banana Guava
192.	Most of (A) (C)	of apple varieties have the chilling requirement 2000-3000 hrs.  100-500 hrs.	nt of (B) (D)	1000-1500 hrs 500-1000 hrs.
193.	Which (A) (C)	of the following nematode is kidney shaped Heterodera Pratylenchus	(B) (D)	Rotylenchus Xiphinema

194.	A ser	ries of transverse depressions on the cuticle of	of nema	tode is:
	(A)	Annulations	(B)	Appendages
	(C)	Striae	(D)	None of these
195.	Trans	smission of grape vine fan leaf virus is by ne	matode	:
	(A)	Radopholus similus	(B)	(B) Ditylenchus angustus
	(C)	Anguina tritici	(D)	Xiphinema index
196.	Whic	ch of the following is nematicide:		
	(A)	Dinocap	(B)	Metalaxyl
	(C)	Tridemorph	(D)	None of these
197.	Angu	ina tritici causes:		
	(A)	Molya disease of wheat	(B)	Ear cockle disease of wheat
	(C)	Root knot of vegetables	(D)	All of these
198.	Whic	ch of the following is a piercing organ in nen	natode:	
	(A)	Haustorium	(B)	Appressorium
	(C)	Stylet	(D)	None of these
199.	Scler	otinia sclerotiorum survives in soil in the fo	rm of:	
	(A)	Oospore	(B)	Sclerotia
	(C)	Basidiospore	(D)	Perithecia
200.	Irish	famine was caused due to:		
	(A)	Early blight of potato	(B)	Downy mildew of onion
	(C)	Late blight of potato	(D)	Downy mildew of grapes

## Answer Key PG Agri A

Q.	An	Q.	Ans	Q.	Answe	Q.	Ans	Q.	Ans	Q.	Ans
No.	S	No.		No.	r	No.	wer	No.	wer	No.	wer
1.	A	35.	D	69.	A	103	С	137	A	171	В
2.	С	36.	С	70.	A	104	Α	138	С	172	С
3.	В	37.	D	71.	A	105	B/C	139	В	173	В
4.	С	38.	A	72.	В	106	С	140	D	174	В
5.	A	39.	С	73.	A	107	В	141	D	175	С
6.	D	40	A	74.	D	108	В	142	В	176	A
7.	C	41.	В	75.	D	109	В	143	В	177	A
8.	C	42.	C	76.	В	110	С	144	A	178	A
9.	В	43.	С	77.	D	111	В	145	D	179	С
10.	C	44.	D	78.	В	112	В	146	D	180	В
11.	В	45.	A	79.	С	113	С	147	В	181	В
12.	C	46.	D	80.	С	114	С	148	С	182	В
13.	C	47.	A	81.	В	115	A	149	В	183	C
14.	A	48.	С	82.	C/D	116	С	150	С	184	В
15.	D	49.	В	83.	D	117	С	151	В	185	A
16.	A	50.	C	84.	В	118	Α	152	С	186	A
17.	В	51.	В	85	D	119	Α	153	A	187	В
18.	С	52.	A	86	С	120	Α	154	D	188	С
19.	В	53.	В	87	A	121	D	155	В	189	A
20.	D	54.	A	88	В	122	В	156	C	190	D
21.	A	55.	D	89	A	123	D	157	C	191	C
22.	В	56.	В	90	C	124	В	158	A	192	D
23.	В	57.	С	91	D	125	В	159	D	193	A
24.	A	58.	В	92	C	126	В	160	В	194	A
25.	A	59.	С	93	D	127	С	161	D	195	A
26.	С	60.	A	94	В	128	Α	162	С	196	D
27.	В	61.	В	95	D	129	D	163	D	197	A
28.	В	62.	С	96	A	130	С	164	A	198	A
29.	D	63.	В	97	D	131	С	165	D	199	В
30.	С	64.	A	98	A	132	С	166	A	200	В
31.	В	65.	D	99	С	133	В	167	С		
32.	В	66.	В	100	D	134	D	168	В		
33.	A	67.	D	101	A/C	135	В	169	В		
34.	С	68.	С	102	A	136	A	170	A		

## Answer Key PG Agri B

Q.	Ans	Q.	Ans	Q.	Answe	Q.	Ans	Q.	Ans	Q.	Ans
No.		No.		No.	r	No.	wer	No.	wer	No.	wer
1.	В	35.	D	69.	A	103	Α	137	В	171	A
2.	A	36.	C	70.	A	104	D	138	C	172	В
3.	В	37.	A	71.	D	105	В	139	A	173	В
4.	Α	38.	В	72.	В	106	С	140	D	174	A
5.	D	39.	A	73.	D	107	С	141	C	175	Α
6.	В	40	С	74.	В	108	Α	142	D	176	С
7.	С	41.	D	75.	В	109	D	143	A	177	В
8.	В	42.	С	76.	В	110	В	144	A	178	В
9.	С	43.	D	77.	С	111	D	145	A	179	D
10.	A	44.	В	78.	A	112	С	146	D	180	С
11.	В	45.	D	79.	D	113	D	147	A	181	В
12.	С	46.	A	80.	С	114	Α	148	A	182	В
13.	В	47.	D	81.	C	115	D	149	В	183	Α
14.	Α	48.	A	82.	C	116	Α	150	В	184	C
15.	D	49.	C	83.	В	117	С	151	A	185	D
16.	В	50.	D	84.	D	118	В	152	С	186	С
17.	D	51.	A/C	85	В	119	В	153	В	187	D
18.	C	52.	A	86	A	120	A	154	C	188	A
19.	A	53.	C	87	A	121	В	155	A	189	C
20.	A	54.	A	88	C	122	С	156	D	190	A
21.	A	55.	B/C	89	В	123	В	157	C	191	В
22.	В	56.	С	90	D	124	В	158	С	192	С
23.	Α	57.	В	91	D	125	С	159	В	193	С
24.	D	58.	В	92	В	126	Α	160	С	194	D
25.	D	59.	В	93	В	127	Α	161	В	195	A
26.	В	60.	С	94	A	128	Α	162	С	196	D
27.	D	61.	В	95	D	129	С	163	C	197	Α
28.	В	62.	В	96	D	130	В	164	A	198	С
29.	С	63.	C	97	В	131	В	165	D	199	В
30.	С	64.	C	98	С	132	В	166	A	200	С
31.	В	65.	A	99	В	133	С	167	В		
32.	C/D	66.	С	100	С	134	В	168	С		
33.	D	67.	С	101	В	135	A	169	В		
34.	В	68.	A	102	С	136	Α	170	D		

## Answer Key PG Agri C

Q.	Ans	Q.	Ans	Q.	Answe	Q.	Ans	Q.	Ans	Q.	Ans
No.		No.		No.	r	No.	wer	No.	wer	No.	wer
1.	A/C	35.	В	69.	В	103	В	137	D	171	A
2.	A	36.	A	70.	A	104	C	138	Α	172	В
3.	C	37.	A	71.	В	105	Α	139	С	173	A
4.	A	38.	C	72.	C	106	D	140	Α	174	D
5.	B/C	39.	В	73.	В	107	C	141	В	175	D
6.	C	40	D	74.	В	108	C	142	С	176	В
7.	В	41.	D	75.	C	109	В	143	С	177	D
8.	В	42.	В	76.	A	110	С	144	D	178	В
9.	В	43.	В	77.	A	111	В	145	Α	179	С
10.	С	44.	A	78.	A	112	С	146	D	180	С
11.	В	45.	D	79.	С	113	С	147	Α	181	В
12.	В	46.	D	80.	В	114	Α	148	С	182	C/D
13.	С	47.	В	81.	В	115	D	149	В	183	D
14.	С	48.	С	82.	В	116	Α	150	С	184	В
15.	A	49.	В	83.	С	117	В	151	В	185	D
16.	С	50.	С	84.	В	118	С	152	A	186	С
17.	С	51.	В	85	A	119	В	153	В	187	A
18.	A	52.	С	86	A	120	D	154	Α	188	В
19.	A	53.	A	87	В	121	Α	155	D	189	Α
20.	A	54.	D	88	С	122	В	156	В	190	С
21.	D	55.	В	89	A	123	В	157	С	191	D
22.	В	56.	С	90	D	124	A	158	В	192	С
23.	D	57.	С	91	С	125	Α	159	С	193	D
24.	В	58.	A	92	D	126	С	160	Α	194	В
25.	В	59.	D	93	A	127	В	161	В	195	D
26.	В	60.	В	94	A	128	В	162	С	196	A
27.	С	61.	D	95	A	129	D	163	В	197	D
28.	Α	62.	С	96	D	130	С	164	Α	198	A
29.	D	63.	D	97	A	131	В	165	D	199	С
30.	С	64.	A	98	A	132	В	166	В	200	D
31.	С	65.	D	99	В	133	Α	167	D		
32.	С	66.	A	100	В	134	С	168	С		
33.	В	67.	С	101	A	135	D	169	A		
34.	D	68.	В	102	С	136	С	170	A		

## Answer Key PG Agri D

Q.	An	Q.	Ans	Q.	Answe	Q.	Ans	Q.	Ans	Q.	Ans
No.	S	No.		No.	r	No.	wer	No.	wer	No.	wer
1.	В	35.	A	69.	В	103	В	137	A	171	D
2.	С	36.	A	70.	D	104	A	138	В	172	В
3.	A	37.	В	71.	A	105	D	139	A	173	D
4.	D	38.	C	72.	В	106	В	140	С	174	В
5.	В	39.	A	73.	В	107	С	141	D	175	В
6.	С	40	D	74.	A	108	В	142	С	176	В
7.	С	41.	С	75.	A	109	С	143	D	177	С
8.	A	42.	D	76.	С	110	Α	144	В	178	Α
9.	D	43.	A	77.	В	111	В	145	D	179	D
10.	В	44.	A	78.	В	112	С	146	A	180	С
11.	D	45.	A	79.	D	113	В	147	D	181	С
12.	С	46.	D	80.	С	114	Α	148	A	182	С
13.	D	47.	A	81.	В	115	D	149	С	183	В
14.	A	48.	A	82.	В	116	В	150	D	184	D
15.	D	49.	В	83.	A	117	D	151	A/C	185	В
16.	A	50.	В	84.	С	118	С	152	A	186	Α
17.	С	51.	A	85	D	119	Α	153	С	187	Α
18.	В	52.	С	86	С	120	A	154	Α	188	C
19.	В	53.	В	87	D	121	A	155	B/C	189	В
20.	A	54.	C	88	A	122	В	156	C	190	D
21.	В	55.	A	89	С	123	Α	157	В	191	D
22.	C	56.	D	90	A	124	D	158	В	192	В
23.	В	57.	C	91	В	125	D	159	В	193	В
24.	В	58.	C	92	C	126	В	160	C	194	A
25.	C	59.	В	93	C	127	D	161	В	195	D
26.	A	60.	C	94	D	128	В	162	В	196	D
27.	A	61.	В	95	A	129	C	163	C	197	В
28.	A	62.	C	96	D	130	C	164	C	198	C
29.	С	63.	C	97	A	131	В	165	A	199	В
30.	В	64.	A	98	C	132	C/D	166	С	200	C
31.	В	65.	D	99	В	133	D	167	С		
32.	В	66.	A	100	C	134	В	168	A		
33.	С	67.	В	101	В	135	D	169	A		
34.	В	68.	C	102	A	136	C	170	A		