1.	Cent	Central Social Welfare Board (CSWB) was setup in					
	(A)	1952	(B)	1953			
	(C)	2001	(D)	2006			
	(E)	Answer not known					
2.		of two or more people in raction with each other	rec	iprocal communication and			
	(A)	Family	(B)	Group			
	(C)	Society	(D)	Community			
	(E)	Answer not known					
3.	This type of evaluation is carried out by the agency responsible for the planning and implementation of the programme						
	(A)	External evaluation	(B)	Ex-post facto evaluation			
	(C)	Internal evaluation	(D)	Self evaluation			
	(E)	Answer not known					
4.		the process of involving loc pretation of a rural situation	cal	people in the analysis and			
	(A)	Communication process	(B)	Innovation decision process			
	(C)	Participatory rural appraisal	(D)	None of the above			
	(E)	Answer not known					
5.	The	individual responsible for econo	omic	conference of Mysore was			
	(A)	Sir Daniel Hamilton	(B)	Mr. F.L. Brayne			
	(C)	Mahatma Gandhi	(D)	Dr. M. Visvesvaraya			
	(E)	Answer not known					

6. Expand 'HYVP'

- (A) High Yielding Varieties Programme
- (B) Hybrids Yielding Varietal Programme
- (C) High Yielding Venture Project
- (D) Hybrid Yielding Venture Plan
- (E) Answer not known

7. ORP stands for

- (A) Online Research Project
- (B) Operational Research Project
- (C) Online Research Programme
- (D) Offline Research Programme
- (E) Answer not known

8. ATIC stands for

- (A) Agricultural Technology Information Council
- (B) Agricultural Technology Information Committee
- (C) Agricultural Technology Information Centre
- (D) Agro Technology Informative Council
- (E) Answer not known
- 9. The relative speed with which an innovation is adopted by members of a social system is
 - (A) Rate of adoption

(B) Degree of motivation

(C) Rate of Diffusion

- (D) Speed of Diffusion
- (E) Answer not known

10.	O. Qualities, Characteristic of traits possessed by an object called		
	(A)	Innovation	(B) Adoption
	(C)	Diffusion	(D) Attributes
	(E)	Answer not known	
11.	The	adopter category who are refer	red as 'Skeptical'
	(A)	Early adopters	(B) Early majority
	(C)	Late majority	(D) Laggards
	(E)	Answer not known	
12.	Com	municate between two people t	hrough computer
	(A)	Electronic mail	(B) Video text
	(C)	Computer conferencing	(D) None of the above
	(E)	Answer not known	
13.	price	_	the farmers by providing daily in various mandis (market) for the sell his produce
	(A)	AGROMET	(B) AGMARNET
	(C)	NBSSLUP	(D) None of the above
	(E)	Answer not known	
14.		ch of the following is a t munication?	traditional and simple aid of
	(A)	Model	(B) Puppet show
	(C)	Radio	(D) TV
	(E)	Answer not known	

15.	It is	It is a system of signals for communication					
	(A)	Encoder	(B)	Code			
	(C)	Decoder	(D)	Message			
	(E)	Answer not known					
16.		se are visual symbols for sume erforming other services in exp					
	(A)	Bulletin board	(B)	Charts			
	(C)	Make-up	(D)	Specimens			
	(E)	Answer not known					
17.	These are in the shape of circles and used to show how several part make up the whole						
	(A)	pie charts	(B)	overlay charts			
	(C)	flip chart	(D)	tree chart			
	(E)	Answer not known					
18.	Out of school system of education for adults and youths						
	(A)	extension					
	(B)	open and distance education					
	(C)	adult education					
	(D)	none of the above					
	(E)	Answer not known					
19.		———— identified three types	of b	asic motivating needs – need			
	for p	power, need for affiliation and n	eed :	for achievement.			
	(A)	Wilson and Gallup	(B)	McClelland			
	(C)	Kootz and Others	(D)	Knowles			
	(E)	Answer not known					

20.	It is a way of showing people the value or worth of an improved practice who's success has already been established in the research station					
	(A)	Method demonstration	(B)	Result demonstration		
	(C)	Minikit trials	(D)	None of the above		
	(E)	Answer not known				
21.	Whi	Which one does not fall under 5'c's of credit?				
	(A)	Character	(B)	Capacity		
	(C)	Condition	(D)	Coordination		
	(E)	Answer not known				
22.	Even when each year of loan repayment period passes by, the principal component remains constant in the case					
	(A)	Partial repayment plan				
	(B)	Balloon repayment plan				
	(C)	Amortized decreasing repayment plan				
	(D)	Amortized even repayment plan				
	(E)	Answer not known				
23.		co-operative credit societies model of	in Inc	dia were organised based on		
	(A)	Single window	(B)	Raiffeisen		
	(C)	Mehta	(D)	Acharya		
	(E)	Answer not known				

	(A)	Cash Reserve Ratio	(B)	Current Ratio Rate
	(C)	Cash Review Report	(D)	Credit Rating Record
	(E)	Answer not known		
25.		erential Interest Rate scheme mercial banks from	(DI	R) was implemented by the
	(A)	1950	(B)	1969
	(C)	1975	(D)	1982
	(E)	Answer not known		
26.	The	first co-operative societies act v	V 2 S 1	nassed in
20.	(A)	1894		1904
	(A) (C)	1924	` /	1948
	(E)	Answer not known	(D)	1040
	(11)	This wer not known		
27.	Expa	and SFDA		
	(A)	Swedish Federation of Develo	pme	nt Assistance
	(B)	Small Farmers Development	Ager	ncy
	(C)	Small Farmers Development	Auth	nority
	(D)	Small Fishermen Developmen	t Ag	gency
	(E)	Answer not known		
28.	The	Reserve Bank of India was esta	blis	hed in the vear
	(A)	1925	(B)	
	(C)	1935	` /	1940
	(E)	Answer not known	(2)	
	()			
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What is CRR?

24.

29.	This method of computation of depreciation is used for livestock asset								
	(A)	Straight-line Method							
	(B)	Diminishing Balance Method							
	(C)	Sum of years digit Method							
	(D)	Annual Revaluation Method							
	(E)	Answer not known							
30.	The	demand for environmental qua	ality is						
	(A)	Income-elastic	(B) Income-inelastic						
	(C)	Price-elastic	(D) Price-inelastic						
	(E)	Answer not known							
31.	Which of the following types of budgeting is used to analyse the expected change in profit for a proposed minor modification in the existing organization of farm business								
	(A)	Enterprise budget	(B) Capital budget						
	(C)	Partial budget	(D) Complete budget						
	(E)	Answer not known							
32.	The inpu		rom using an additional unit of						
	(A)	Gross income	(B) Profit						
	(C)	Marginal value of product	(D) Average revenue						
	(E)	Answer not known							

- 33. The inflection point is point at which
 - (A) APP is maximum
- (B) TPP is maximum
- (C) MPP is maximum
- (D) EPP is maximum
- (E) Answer not known
- 34. Given the regression model $Y_i = \beta + \beta_2 x_{2i} + \beta_3 x_{3i} + ui$, how would you state the null hypothesis to test that X_2 has no influence on Y with X_3 held constant
 - (A) $H_0: \beta_1 = 0$

(B) $H_0: \beta_2 = 0$

(C) $H_0: \beta_3 = 0$

- (D) $H_0: \beta_2 = 0$ given $\beta_3 = 0$
- (E) Answer not known
- 35. Which of the following is the ratio worked out to analyse the financial safety of a farm business over a long period of time?
 - (A) Capital turnover ratio
- (B) Net capital ratio

(C) Working ratio

- (D) Current ratio
- (E) Answer not known
- 36. What happens to AVC, when AFC decreases
 - (A) AVC first decreases and then increases
 - (B) AVC first increases and then decreases
 - (C) AVC cuts Mc at lower point
 - (D) AVC cuts Mc at highest point
 - (E) Answer not known

	(A)	APP is maximum	(B)	MPP is maximum
	(C)	APP = MPP	(D)	MPP is zero
	(E)	Answer not known		
38.	Whi	ch of the following is included in	n cor	nputing cost A_2 ?
	(A)	Depreciation		
	(B)	Rental value of owned land		
	(C)	Rental value of leased in land		
	(D)	Imputed value of family labou	r	
	(E)	Answer not known		
39.	The	demand for farm machines is a		
	(A)	Direct demand	(B)	Kinked demand
	(C)	Consumer demand	(D)	Derived demand
	(E)	Answer not known		
40.		following one is included in sions	the	administrative management
	(A)	What to produce	(B)	Accounting and supervision
	(C)	How to produce	(D)	How much to produce
	(E)	Answer not known		
41.		er seed village concept, the far wing kinds of seeds	rmer	es are eligible to produce the
	(A)	Foundation seed	(B)	Certified seed
	(C)	Hybrid seed	(D)	Above all
	(E)	Answer not known		
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The Elasticity of production is zero when

37.

42. The physical or chemical method of softening the hard s make it more permeable to water is called as			_	
	(A)	Stratification	(B)	Scarification
	(C)	Vernalization	(D)	Fortification
	(E)	Answer not known		
43.		movement of colloidal particles electric field is called	thro	ough a fluid under the action
	(A)	Osmosis	(B)	Hydrolysis
	(C)	Electrophoresis	(D)	Polymerase chain Reaction
	(E)	Answer not known		
44.	genu	minimum weights submitted ineness of varieties through g les of all other genera is		-
	(A)	$25~\mathrm{gms}$	(B)	200 gms
	(C)	100 gms	(D)	50 gms
	(E)	Answer not known		
45.	-	per the ISTA, a minimum nu nination is	ımbe	er of seeds to be tested for
	(A)	100	(B)	200
	(C)	400	(D)	50
	(E)	Answer not known		

46. As per the ISTA, additional recommendation for of tomato in seed testing is			mendation for breaking dormancy
	(A)	HNO_3	(B) KNO_3
	(C)	GA_3	(D) Pre-chill
	(E)	Answer not known	
47.		d Seeds are normally found in ermination test	which of the following crops Seed
	(A)	Paddy	(B) Blackgram
	(C)	Sunflower	(D) Ragi
	(E)	Answer not known	
48.		e Seed Testing laboratory is no an Seeds Act, 1966	otified under ——— of the
	(A)	Sub Section 2 of Section 4	(B) Sub Section 3 of Section 8
	(C)	Sub Section 2 of Section 12	(D) Sub Section 2 of Section 13
	(E)	Answer not known	
49.		imum germination requirements ————————————————————————————————————	nt prescribed for certified seed of
	(A)	75%	(B) 65%
	(C)	85%	(D) 90%
	(E)	Answer not known	

50.	Which of the following machine is not used in pre-conditioning and pre-cleaning operations in seed processing?		
	(A)	Scalpers	(B) Maize shellers
	(C)	Decorticators	(D) Debearders
	(E)	Answer not known	
51.		nree line hybrid seed production	on system, ————— line is
	(A)	A Line	(B) B Line
	(C)	R Line	(D) CMS line
	(E)	Answer not known	
52.	are s		the seed field and whose seeds at it is difficult to separate then are termed as
	(A)	Objectionable weed plants	
	(B)	Pollen shedders	
	(C)	Designated diseased plants	
	(D)	Inseparable other crop plants	
	(E)	Answer not known	
53.	Nucl meth	eus seed of inbred lines are	e maintained by ————
	(A)	Cagging	(B) Crossing
	(C)	Selfing and Sibling	(D) Top cross
	(E)	Answer not known	

54. A layer of nutritional tissue of diploid maternal origin arise the nucellus is referred as			maternal origin arisen from			
	(A)	Endosperm	(B)	Perisperm		
	(C)	Scutellum	(D)	Cotyledon		
	(E)	Answer not known				
55.	Which of the following is designated disease of Bajra?					
	(A)	Loose smut	(B)	Green ear		
	(C)	Alternaria blight	(D)	Anthracnose		
	(E)	Answer not known				
56.	Mois	ture content of seeds higher th	an r	ecommended level leads to		
	(A)	Loss in seed inability				
	(B)	Growth of microorganisms				
	(C)	Attack by storage insect pests				
	(D)	All the above				
	(E)	Answer not known				
57.		aber of plants to be observed feet of sesame seed crop during t		1 0		
	(A)	1000 plants	(B)	500 plants		
	(C)	100 plants	(D)	200 plants		
	(E)	Answer not known				

58.		Minimum seed certification standard prescribed for germination percentage of Blackgram certified seed is					
	(A)	75%	(B)	85%			
	(C)	60%	(D)	90%			
	(E)	Answer not known	, ,				
59.	Max seed	_	d preso	cribed for soybean certified			
	(A)	10 no./kg of seed	(B)	20 no./kg of seed			
	(C)	50 no./kg of seed	(D)	40 no./kg of seed			
	(E)	Answer not known					
60.	The	The seed control order was passed in the year					
	(A)	1966	(B)	1983			
	(C)	1989	(D)	2001			
	(E)	Answer not known					
61.	Pods	solization process usually occ	eurs in				
	(i)	Humid climate					
	(ii)	Acid soil					
	(iii)	High rainfall areas					
	(iv)	Alkaline soils					
	(A)	Statement (i) and (ii) are correct					
	(B)						
	(C)	Statement (i), (ii) and (iv) a	re corr	ect			
	(D)	All are correct					
	(E)	Answer not known					

62.	At what tension capillary water is held by soil particles?			
	(A)	< 0.1 bar	(B)	0.1 - 31 bars
	(C)	31 - 10,000 bars	(D)	-15 bars
	(E)	Answer not known		
63.	Apat	ite is a group of minerals which	n ma	inly contains
	(A)	Sulphur	(B)	Titanium
	(C)	Zinc	(D)	Phosphate
	(E)	Answer not known		
64.	A no	n-heme iron-sulphur protein oc	curs	in the chloroplast is
	(A)	Sulpho-lipid	(B)	Biotin
	(C)	Ferredoxin	(D)	Hematin
	(E)	Answer not known		
				_
65.	Univ	versal Soil Loss Equation (USL)	E) is	used to compute
	(A)	Soil conservation	(B)	Soil porosity
	(C)	Soil erodibility	(D)	Soil roughness
	(E)	Answer not known		
66.	Soil	compaction increases the ———		– of soil.
	(A)	Soil consistency	(B)	Soil texture
	(C)	Bulk density	` '	Soil porosity
	(E)	Answer not known	(-)	

67.	As per ISSS system of soil particle classification, the size of silt particle is ———— mm.					
	(A)	2.0 - 0.2	(B) $0.2 - 0.02$			
	(C)	0.02 - 0.002	(D) < 0.002			
	(E)	Answer not known				
68.	Lan	d use planning can be achiev	ved through			
	(A)	Land evaluation				
	(B)	Soil resource inventory				
	(C)	Data on land characters ar	nd qualities			
	(D)	All of them				
	(E)	Answer not known				
69.		——— is a ferromagnesiand in of tetrahedron.	n silicate mineral having a single			
	(A)	Amphiboles	(B) Olivine			
	(C)	Quartz	(D) Pyroxenes			
	(E)	Answer not known				
70.		most suitable analytical sphorus in acid soil is———	method for estimating available — method.			
	(A)	Olsen's	(B) Bray and Kurtz			
	(C)	Mehlich	(D) Lindsay and Norwell			
	(E)	Answer not known				

71. The electrical conductivity of soil is measured i				isured in
	(A)	ms/100g	(B)	dSm^{-1}
	(C)	g/cc	(D)	ohms/m
	(E)	Answer not known		
72.		akdown of Indole Acetic Acid entration of	(IAA	A) is favoured by the excess
	(A)	Manganese	(B)	Iron
	(C)	Boron	(D)	Potassium
	(E)	Answer not known		
73.		method of assessing 'Gypsum' proposed by	requ	irement' to reclaim sodic soil
	(A)	Schoonover	(B)	Shoemaker
	(C)	Lindsay	(D)	Bray and Kurtz
	(E)	Answer not known		
74.	The	lowest category in the land cap	abili	ty classification system is
	(A)	Capability unit	(B)	Capability sub class
	(C)	Capability class	(D)	None of these
	(E)	Answer not known		
75.	The	growth expression equation of	<i>Y</i> =	$M(1-R^x)$ is given by
	(A)	Mitscherlich	(B)	Gapon
	(C)	Liebig	` /	Spillman
	(E)	Answer not known	` /	1
	` /			

76.		soil fertility evaluation, <u>A</u> ch nutrient?	Aspergillus niger method is used for			
	(A)	Phosphorus	(B) Sulphur			
	(C)	Nitrogen	(D) Iron			
	(E)	Answer not known				
77.		ductivity (EC) for salt mi	smotic pressure (OP) and Electrical xtures in saline soils is given by the			
	(A)	A) OP (atmospheres/bars) = $0.36 \times EC (dSm^{-1})$				
	(B)	OP (atmospheres/bars) = $64 \times EC$ (dSm ⁻¹)				
	(C)	OP (atmospheres/bars) =	$\frac{EC}{0.36} \ (dSm^{-1})$			
	(D)	OP (atmospheres/bars) =	$\frac{EC}{64} (dSm^{-1})$			
	(E)	Answer not known				
78.	The	sodium hazard of irrigatio	n water is calculated by			
	(A)	SAR	(B) ESP			
	(C)	RSC	(D) RSBC			
	(E)	Answer not known				
79.		ratio of the electrical nage water is known as	conductivity of applied water and			
	(A)	Lime requirement	(B) Leaching requirement			
	(C)	Gypsum requirement	(D) (A) and (B)			
	(E)	Answer not known				

80.	Beno	Bench terracing is usually practiced on slope ranging from					
	(A)	1 - 2%	(B) 3 – 10%				
	(C)	16 - 33%	(D) $11 - 15\%$				
	(E)	Answer not known					
81.		nursery area required to are of cumbu is————————————————————————————————————	raise seedlings for planting cents	one			
	(A)	20	(B) 10				
	(C)	7.5	(D) 12				
	(E)	Answer not known					
82.		The relation of Agricultural crops and physical environment is called					
	(A)	Meteorology	(B) Agroclimatology				
	(C)	Agrometeorology	(D) Agroecology				
	(E)	Answer not known					
83.		important field operation cing basal branches is	in sesame crop cultivation	for			
	(A)	Early Weeding					
	(B)	Organic manure applicatio	l				
	(C)	Top dressing					
	(D)	Nipping					
	(E)	Answer not known					

84.	If maize crop is planted with a spacing of 60×30 cm, the plant population for 1 hectare is					
	(A)	55,555	(B)	76,666		
	(C)	83,333	, ,	86,666		
	(E)	Answer not known				
85.	The	Recommended spacing for beng	gal g	ram in Tamilnadu is		
	(A)	$30~\mathrm{cm} \times 10~\mathrm{cm}$	(B)	$30~\mathrm{cm} \times 15~\mathrm{cm}$		
	(C)	$30~\mathrm{cm} \times 5~\mathrm{cm}$	(D)	$30~\mathrm{cm} \times 30~\mathrm{cm}$		
	(E)	Answer not known				
86.	The	recommended pre emergence — kg ai/ha.	her	bicide for irrigated Ragi is		
	(A)	Oxyfluorfen @ 0.05 kg ai/ha				
	(B)	Oxyfluorfen @ 0.5 kg ai/ha				
	(C)	Atrazine @ 0.5 kg ai/ha				
	(D)	Atrazine @ 1.0 kg ai/ha				
	(E)	Answer not known				
87.		lication of Calcium Sulpha mmended for groundnut crop in				
	(A)	200	(B)	80		
	(C)	400	(D)	100		
	(E)	Answer not known				

88.		recommended dose of ——— kg N P ₂ O ₅ K ₂ O/ha	fertilizers	for h	ıybrid	cumbu	is
	(A)	70:35:35	(B) 80	: 40 : 4	0		
	(C)	90:45:45	(D) 12	0:60:	60		
	(E)	Answer not known					
89.		seed requirement of Gree ure seeder is ————		crop in	Rice	cum Gre	en
	(A)	60	(B) 40				
	(C)	30	(D) 20				
	(E)	Answer not known					
90.	The	recommended dose of ——— kg N, P ₂ O ₅ and K ₂		for]	hybrid	maize	is
	(A)	250:75:75	(B) 10	0:75:	7 5		
	(C)	150:50:50	(D) 20	0:75:	75		
	(E)	Answer not known					
91.	The	ideal sowing time for wheat	t in Tamil N	ladu is			
	(A)	15 th October to First week	of Novembe	er			
	(B)	15 th September to 15 th Oct	tober				
	(C)	15th December to 15th January	uary				
	(D)	15 th February to 15 th Marc	eh				
	(E)	Answer not known					

92. The process of separating list from seed cotton is			cotton is called	
	(A)	Linting	(B)	Ginning
	(C)	Delinting	(D)	None of the above
	(E)	Answer not known		
93.	In Ir	ndia the most commonly grown	mai	ze type is
	(A)	Sweet Corn	(B)	Flint Corn
	(C)	Dent Corn	(D)	Waxy Corn
	(E)	Answer not known		
94. India is divided into 15 Agroclimatic zones based			nes based on	
	(A)	Climate and rainfall		
	(B)	Climate		
	(C)	Rainfall		
	(D)	Physiography and Climate		
	(E)	Answer not known		
95.	The	short range weather forecast is	s for a	a period of
	(A)	1–2 days	(B)	3–4 days
	(C)	5–6 days	(D)	More than a week
	(E)	Answer not known		

96.	The condition of the atmosphere at a given time and place with reference to temperature, pressure, moisture, wind speed and direction is					
	(A)	Meteorology	(B)	Climatology		
	(C)	Weather	(D)	Hydrology		
	(E)	Answer not known				
97.	The	lower layer of atmosphere is re	ferre	ed to as		
	(A)	Stratosphere	(B)	Ionosphere		
	(C)	Exosphere	(D)	Troposphere		
	(E)	Answer not known				
98.	Soil	mulching reduces				
	(A)	Reduces evaporation	(B)	Deep cracking		
	(C)	Improves moisture storage	(D)	All the above		
	(E)	Answer not known				
99.	soil o	refers to the growing		crop with the least possible		
	(A)	Zero tillage	(B)	Minimum tillage		
	(C)	Wet tillage	(D)	Conventional tillage		
	(E)	Answer not known				

100.	The prediction and forecasting monsoon rainfall development a few hours to 48 hours is							
	(A)	Short range forecast	(B)	Middle range forecast				
	(C)	Long range forecast	(D)	None				
	(E)	Answer not known						
101.		share of agriculture and ive Year Plan is	allied	sectors to total outlay in				
	(A)	18.5	(B)	19.5				
	(C)	17.5	(D)	20.5				
	(E)	Answer not known						
102.	Doctrine of Comparative Cost Advantage was given by							
	(A)	Adam Smith	(B)	Alfred Marshall				
	(C)	David Ricardo	(D)	Paul Krugman				
	(E)	Answer not known						
103.	Expand CAC							
	(A)	Codex Alimentarious Comm	nission					
	(B)	Credit Audit Commission						
	(C)	Credit Accounting Control						
	(D)	Central Administrative Cor	nmissi	on				
	(E)	Answer not known						

104.	The following one is not a blue box measure in WTO				
	(A)	Decoupled income supports			
	(B) Payments not linked to production(C) Tariff				
	(D)	Income safety net programme	S		
	(E)	Answer not known			
105.	Mini	mum support price for farm co	mmo	odities are recommended by	
	(A)	FCI	(B)	STC	
	(C)	CACP	(D)	NAFED	
	(E)	Answer not known			
106.	is the price at which essential commodities are mad available to the consumers at fair price shops.				
	(A)	Minimum support price	(B)	Procurement price	
	(C)	Support price	(D)	Issue price / Fair price	
	(E)	Answer not known			
107.	Brea	k-even Point (BEP) is calculate	ed as	follows.	
	(A)	Fixed cost Sales projected – Variable cos	<u> </u>	100	
	(B)	Fixed cost Sales projected – Variable cos	$-\times 1$	100	
	(C)	Fixed cost Sales projected – Variable cos	<u> </u>	100	
	(D)	Fixed cost Sales projected – Variable cos	<u>-</u> ÷]	100	
	(E)	Answer not known			

108.	3. Which is not an advantage of a cooperative form of business?					
	(A)	Easy formation	(B)	Limited liability		
	(C)	Lack of secrecy	(D)	State Assistance		
	(E)	Answer not known				
109.	Expa	and NWR				
	(A) National Warehouse Receipt					
	(B)	National Warehouse Rate				
	(C)	Negotiable Warehouse Receip	t			
	(D)	Negotiable Warehouse Rate				
	(E)	Answer not known				
110.	The l	loans that help the farmers to o	over	come distress sales are		
	(A)	Production loans				
	(B)	Marketing loans				
	(C)	Consumer loan				
	(D)	Jewel loan				
	(E)	Answer not known				
111.	KHA	I is an example for sto	rage	structure.		
	(A)	Mud pots				
	(B)	Metal drum				
	(C)	Gunny bag				
	(D)	Under ground				
	(E)	Answer not known				

112.	grading means sorting out of goods according to the size, quality and other characteristics which are of fixed standards.				
	(A)	Permissive			
	(B)	Centralised			
	(C)	Decentralised			
	(D)	Mandatory			
	(E)	Answer not known			
113.	3. Total marketing cost incurred by all those intermediaries involved is Rs.300/tonnes and value added measured in terms of difference in the consumer's price and price received by the farmer is Rs.600/tonne. The marketing efficiency is				
	(A)	300	(B)	600	
	(C)	200	(D)	400	
	(E)	Answer not known			
114.	Tran	sportation adds			
	(A)	Form utility	(B)	Place utility	
	(C)	Time utility	(D)	Possession utility	
	(E)	Answer not known			
115.		curve representing all combina ame level of output is referred		-	
	(A)	Indifference curve	(B)	Iso-quant	
	(C)	Iso-cost line	(D)	Iso-Revenue line	
	(E)	Answer not known			

116.	activ	take the ownership of the eity and attempt to make ements.					_
	(A)	Processing agent					
	(B)	Merchant middlemen					
	(C)	Agent middlemen					
	(D)	Speculative middlemen					
	(E)	Answer not known					
117.		refers to purchase or sal tet accompanied by sale or a pu			-		
	(A)	Hedging					
	(B)	Speculation					
	(C)	Contract					
	(D)	Insurance					
	(E)	Answer not known					
118.		n a large number of seller centiated form of a commodity,				_	s and
	(A)	Oligopoly	(B) Mo	nopoli	istic c	competit	ion
	(C)	Duopoly	(D) Mo	_		-	
	(E)	Answer not known					
119.	Time	utility is provided by					
	(A)	Transport function	(B) Pro	cessir	ng fur	nction	
	(C)	Storage function	(D) Sel	ling fu	anctio	on	
	(E)	Answer not known					

120.	0. When a firm or agency gains control of other firms or agence performing similar marketing functions at the same level in the marketing sequence is termed as			
	(A) (C) (E)	Vertical Integration Conglomeration Answer not known		Horizontal Integration Forward Integration
121.	Whic	ch of the following is an introdu	ced	pest?
	(A)	Spiralling Whitefly	(B)	American Boll worm
	(C)	Cabbage semi looper	(D)	Fruit fly in guava
	(E)	Answer not known		
122.	2. The study of circadian rhythm in insect is called			
	(A)	Neurobiology	(B)	Chronobiology
	(C)	Chemobiology	(D)	Mechnobiology
	(E)	Answer not known		
123.	Ecolo	ogy is defined as the study of or	gan	isms at home is given by
	(A)	Eugene P. Odum	(B)	Andrewartha
	(C)	Ernst Haeckel	(D)	H. Painter
	(E)	Answer not known		
124.		ite tip" disease of rice is cau	ısed	by which of the following
	(A)	<u>Ditylenchus angustus</u>	(B)	Aphelenchoides besseyi
	(C)	<u>Hoplolaimus sp.</u>	(D)	Belonolaimus sp.
	(E)	Answer not known		

125.	The insect pest whose adults are carrying notching of leaf edges a the young ones feeding on the roots of the plants is				
	(A)	Rice Weevil	(B)	Ash Weevil	
	(C)	Red Palm Weevil	(D)	Stem Weevil	
	(E)	Answer not known			
126.		addy, is modified er shoot"	into	gall like structure known as	
	(A)	leaf sheath	(B)	stem	
	(C)	leaf blade	(D)	Inflorescence	
	(E)	Answer not known			
127. Oozing out of brown resinous fluid fro			rom	the fruits of cucurbits is due	
	(A)	Stem Fly	(B)	Shoot Fly	
	(C)	Gall Fly	(D)	Fruit Fly	
	(E)	Answer not known			
128.	What	t is the mode of action of Spiror	nesi	fen?	
	(A)	Moulting disrupter	(B)	Inhibitors of ATP synthase	
	, ,	Inhibitors of Chitin synthesis	` ,	•	
	(E)	Answer not known	` ,	- ·	
129.		h one of the following in otoxicity on onion?	sect	cicides is likely to cause	
	(A)	Monocrotophose	(B)	Imidacloprid	
	(C)	Dimethoate	(D)	Profenophos	
	(E)	Answer not known			

130.	The ETL for leaf infesting mite in cotton is				
	(A)	$5~{ m per}~{ m cm}^2$	(B) 10 per cm ²		
	(C)	$15~ m per~cm^2$	(D) 20 per cm ²		
	(E)	Answer not known			
131.		Rice Tungro virus endemic are	eas, the ETL for rice green leaf		
	(A)	5 / hill	(B) 5/hiller		
	(C)	2 / hill	(D) 2/hiller		
	(E)	Answer not known			
132.	Which one of the following insecticide is more safe to honey bees?				
	(A)	Diflubenzuron	(B) Chlorpyriphos		
	(C)	Cypermethrin	(D) Imidacloprid		
	(E)	Answer not known			
133.	quai		pest in Tamil Nadu, at Mettupalayam, Gudalur and		
	(A)	Eriosoma lanigerum on apple			
	(B)	Phthorimaea operculella on p	otato		
	(C)	<u>Icerya purchasi</u> on wattle			
	(D)	Coccus vividis on coffee			
	(E)	Answer not known			

134. Leaf rust disease of coffee was introduced into India from			rom				
	(A)	North America	(B) South Ameri	ca			
	(C)	Europe	(D) Srilanka				
	(E)	Answer not known					
135.	Effec	ctiveness of the <u>Bacillus thur</u> pH	<u>ngiensis</u> toxin w	vill be more in			
	(A)	Alkali	(B) Acidity				
	(C)	Neutral	(D) No relation				
	(E)	Answer not known					
136.	Bioh	erbicide from <u>Phytophthora pa</u>	nivora fungus is				
	(A)	Devine	(B) Collego				
	(C)	Biomal	(D) Atrazine				
	(E)	Answer not known					
137.	Choose the very effective egg parasitoid against many lepidopteran pests.						
	(A)	Chelonus sp.	(B) Trichogramn	na sp.			
	(C)	Bracon sp.	(D) Trichospilus	sp.			
	(E)	Answer not known					
138.		A weed that depends partly or fully on its host plant for growth i termed as					
	(A)	Objectionable weed	(B) Associated w	reed			
	(C)	Satellite weed	(D) Parasitic wee	ed			
	(E)	Answer not known					

139.	The formula for Weed Control Efficiency (WCE) is					
	Note:					
	[WP	C : Weed Population in Control	Plot	,		
	WPT	: Weed Population in Treated	Plot			
	(A)	$\frac{\text{WPC} - \text{WPT}}{\text{WPT}} \times 100$	(B)	$\frac{\text{WPT} - \text{WPC}}{\text{WPT}} \times 100$		
	(C)	$\frac{\text{WPT} - \text{WPC}}{\text{WPC}} \times 100$	(D)	$\frac{\text{WPC} - \text{WPT}}{\text{WPC}} \times 100$		
	(E)	Answer not known				
140.	Whic	ch of the parasitic weed is serio	us ir	n Sugarcane crop?		
	(A)	Cuscuta	(B)	Orobanche		
	(C)	Striga	(D)	Lovanthus		
	(E)	Answer not known				
141.		————— variety is a varvated and evolved by farmers.	iety	that has been traditionally		
	(A)	Breeder's	(B)	Farmer's		
	(C)	Obsolete	(D)	Extant		

- 142. When selection favours the intermediate phenotype and acts against the extreme phenotypes, it is termed as ————.
 - (A) Directional Selection

Answer not known

(E)

- (B) Stabilising Selection
- (C) Disruptive Selection
- (D) Progery Selection
- (E) Answer not known

143.	are primitive varieties which has evolved over centuries or even millenia through naturally selected and adopted as man made, but without a systematic breeding effort.					
	(A)	Obsolete varieties	(B)	Breeding lines		
	(C)	Varieties in cultivations	(D)	Land races		
	(E)	Answer not known				
144.		temperature for cryopreserva	ition	of germplasm using liquid		
	(A)	−20°C	(B)	$-70^{\circ}\mathrm{C}$		
	(C)	$-176^{\circ}\mathrm{C}$	(D)	−196°C		
	(E)	Answer not known				
145.	Totij	potency of plant cells was predi	cted	by ———— in 1902.		
	(A)	Cocking	(B)	Haberlandt		
	(C)	Hanning	(D)	Braun		
	(E)	Answer not known				
146.	Whi	ch one of the following is not a	PCR	-based molecular marker?		
	(A)	RAPD	(B)	SSR		
	(C)	RFLP	(D)	SCAR		
	(E)	Answer not known				
147.	Prot	oplast fusion is commonly indu	ced l	by ———		
	(A)	Calcium phosphate	(B)	Polyethylene glycol		
	(C)	Naphthoxy acetic acid		Benzyl aminopurine		
	(E)	Answer not known				

148.	. — is an attribute responsible for drought escape.			
	(A)	reduced transpiration	(B)	earliness
	(C)	leaf rolling	(D)	deep root system
	(E)	Answer not known		
149.	Which in In	ch one of the following wheat valdia?	ariet	y is a secondary introduction
	(A)	Sonora 64	(B)	Lerma Rojo
	(C)	Kalyansona	(D)	NP4
	(E)	Answer not known		
150.	A wh	nite seeded sesame variety relea	ased	by TNAU
	(A)	VRI, SV.2		
	(B)	VRI.3		
	(C)	TMV.7		
	(D)	CO-1		
	(E)	Answer not known		
151.	A me	ethod of evaluation of inbreds –		
	(A)	Top cross test	(B)	Back cross method
	(C)	Bulk method	(D)	Pedigree method
	(E)	Answer not known		
152.		is a source of male s	steril	e cytoplasm in cotton.
	(A)	Gossypium thurberi	(B)	Gossypium trilobum
	(C)	Gossypium harknessii	(D)	Gossypium tomentosum
	(E)	Answer not known		

153.	. Which of the following is not relates to hybrid rice seed production?			ybrid rice seed production?
	(A)	Male sterile line	(B)	Gynoecious line
	(C)	Maintainer line	(D)	Restorer line
	(E)	Answer not known		
154.		difference in planting time for rown as	nicki	ng in hybrid seed production
	(A)	Synchronization	(B)	Staggering
	(C)	Roguing	(D)	Supplementary pollination
	(E)	Answer not known		
155.		n two species, say A and C, ca es, eg. B., which is used to mak		•
	(A)	Bridge species	(B)	Bridge cross
	(C)	Wild species	(D)	Wide cross
	(E)	Answer not known		
156.	'Rang	gpur lime' root stock of citr ———— tolerant plants	us i	s used for development of
	(A)	Drought	(B)	Salinity
	(C)	Insect	(D)	Disease
	(E)	Answer not known		
157.		method, F_2 and ested in mass or as bulks to rai		
	(A)	Pedigree method	(B)	Bulk method
	(C)	Single-Seed Descent method	` ′	
	(E)	Answer not known	` /	
	` /			

158.	Seedless watermelon is produced by crossing			
	(A)	$\operatorname{Diploid} \times \operatorname{Haploid}$	(B)	$Triploid \times Hexaploid$
	(C)	$Tetraploid \times Diploid$	(D)	$Hexaploid \times Diploid$
	(E)	Answer not known		
159.	Sunf	lower belongs to the family	,	
	(A)	Pedaliaceae	(B)	Compositae
	(C)	Graminae	(D)	Leguminosae
	(E)	Answer not known		
160.	Geite	onogamy results when polle	en from a	a flower of one plant falls on
	(A)	Stigma of the same flower	•	
	(B)	Stigma of flowers of anoth	er plant	
	(C)	The pollen becomes sterile	9	
	(D)	Stigma of other flowers of	same pla	ant
	(E)	Answer not known		
161.		intercultural implement fon etc. is	for wide	row crops like sugarcane,
	(A)	Mould board plough	(B)	Junior hoe
	(C)	Country plough	(D)	Disc plough
	(E)	Answer not known		
162.	In an by	rtificial bee hives 'Bee spac	e" (or) "I	Bee Passage" was discovered
	(A)	Beeson	(B)	L.L. Langstroth
	(C)	Newton	(D)	Abbe Warre
	(E)	Answer not known		
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163.	63. Thai sac Brood virus specifically attacks						
	(A)	<u>Apis Mellifera</u>	(B)	Apis Florea			
	(C)	Apis Cerana indica	(D)	Apis Dorsata			
	(E)	Answer not known					
164.	Meth	nods of irrigation include,					
	(i)	Flooding					
	(ii)	Furrow irrigation					
	(iii)	Sub surface irrigation					
	(iv)	Sprinkling and Drip					
	(A)	(i) and (ii)	(B)	(i) and (iv)			
	(C)	(i), (ii) and (iv)	(D)	(i), (ii), (iii) and (iv)			
	(E)	Answer not known					
165.	One	cubic metre tank stores ———		— litres of water.			
	(A)	100	(B)	10			
	(C)	1000	(D)	10,000			
	(E)	Answer not known					
166.	The	Quantity of irrigation water to	be a	pplied for a sunflower crop is			
	8 cm. $\frac{IW}{CPE}$ ratio of 0.9 is recommended for irrigation. Work out the						
		ulative pan evaporation.					
	(A)	0.8 cm	(B)	8.0 cm			
	(C)	8.88 cm	(D)	88.8 cm			
	(E)	Answer not known					

167.	The inclu		ciency symptoms in crop plants
	(A)	Chlorosis	(B) Necrosis
	(C)	Stunting	(D) All the above
	(E)	Answer not known	
168.	Whic	ch of the following Rhizobium S	Sp. fixes nitrogen in Alfalfa?
	(A)	Rhizobium meliloti	(B) Rhizobium phaseoli
	(C)	Rhizobium trifolii	(D) Rhizobium lupini
	(E)	Answer not known	
160	Tho	notossium solubilizing bootovis	, ia
109.		potassium solubilizing bacteria	
	(A)	Pseudomonas striata	(B) Bacillus polymyxa
	(C)	Bacillus mucilaginosus	(D) Aspergillus awamori
	(E)	Answer not known	
170.	The	pathogen which restricts the g	rowth of Azotobacter is
	(A)	Cephallosporium	(B) Alternaria
	(C)	Fusarium	(D) Helminthosporium
	(E)	Answer not known	
171.	. One of following is reduced by nitrogenase during biological nitrog fixation		
	(A)	N_2	(B) $N \equiv N$
	(C)	NO	(D) N_2O
	(E)	Answer not known	

172.	172. Organic N content of soil increases steadily with the application					
	(A)	Urea	(B) DAP			
	(C)	Ammonium Chloride	(D) Ammonium Sulphate			
	(E)	Answer not known				
173.	<u>Azorhizobium Caulinodans</u> causes root and stem nodules in the plant:					
	(A)	Sesbania rostrata	(B) <u>Sesbania aculeata</u>			
	(C)	Sesbania speciosa	(D) <u>Sesbania grandiflora</u>			
	(E)	Answer not known				
174.	The fresh poultry manure droppings contain					
	(A)	50% moisture, 1.0% N, 0.5% P	$ m C_2O_5$ and $0.2\%~ m K_2O$			
	(B)	60% moisture, 1.0% N, 0.75%	$ m P_2O_5$ and $ m 0.3\%~K_2O$			
	(C)	75% moisture, 1.5% N, 1.2% P	$ m V_2O_5$ and $0.5\%~ m K_2O$			
	(D)	90% moisture, 2.5% N, 2.0% P	$ m V_2O_5$ and 1.0% $ m K_2O$			
	(E)	Answer not known				
175.	Which of the following is not a method of nutrient absorption by t crop plants?					
	(A)	Mass flow	(B) Diffusin			
	(C)	Root interception	(D) Nutrient exchange			
	(E)	Answer not known				

176.	. Algalization of rice crops has been found to supplement nitrogenous fertilizers to the extent of						
	(A)	10-20 kg N / ha / season	(B)	20-30 kg N / ha / season			
	(C)	30-40 kg N / ha / season	(D)	40-50 kg N / ha / season			
	(E)	Answer not known					
177.	7. Bangalore method of composting was developed by						
	(A)	Acharya and Subramanian					
	(B)	Howard and Wad					
	(C)						
	(D)	· · · · · · · · · · · · · · · · · · ·					
	(E)	Answer not known					
178.	8. Direct or indirect harmful effect that one plant has on another plant through release of chemical substances, the phenomena known as			-			
	(A)	Annidation	(B)	Allelopathy			
	(C)	Complementary	(D)	Companion			
	(E)	Answer not known					
179.	 179. What is the LER (Land equivalent ratio) of the given cotton based cropping system? Sole cotton yield – 15 q Intercrop cotton yield – 12 q Sole Blackgram yield – 5 q Intercrop Blackgram yield – 3 q 			io) of the given cotton based			
	(A)	1.0	(B)	1.2			
	(C)	1.4	(D)	1.6			
	(E)	Answer not known					

180.	Press	smud is used as a manure				
	(A)	In acid soils	(B) In alkaline and saline soils			
	(C)	In acid and neutral soils	(D) In water logged soils			
	(E)	Answer not known				
181.	The unique institution under ICAR to conduct Research Training in Agricultural Management is					
	(A)	IARI	(B) CRI			
	(C)	NAARM	(D) IVRI			
	(E)	Answer not known				
182.	National commission on farmer was headed by					
	(A)	Dr. Manmohan Singh	(B) Dr. M.S. Swaminathan			
	(C)	Dr. Abijit Sen	(D) Dr. S.S. Acharya			
	(E)	Answer not known				
183.	The areas which enjoy special privileges as compared with other areas of the country are called					
	(A)	A) Special Economic Zones (SEZs)				
	(B)	Export Processing Zones (EPZs)				
	(C)	C) Free Trade and Warehousing Zone (FTWZs)				
	(D)	None of the above				
	(E)	Answer not known				

184.	National Seeds Corporation (NSC) Ltd was primarily established to fulfill the needs of ———— seed production.					
	(A)	Hybrid Redgram	(B)	Hybrid Maize		
	(C)	Hybrid Rice	(D)	Hybrid Wheat		
	(E)	Answer not known				
185.	Food grain production in India during 2014-2015 was					
	(A)	212 Million tonnes	(B)	252 Million tonnes		
	(C)	312 Million tonnes	(D)	342 Million tonnes		
	(E)	Answer not known				
186.	At present India supports ———world population.		_ %	of Global land and 17% of		
	(A)	5.0%	(B)	2.3%		
	(C)	6.5%	(D)	10.0%		
	(E)	Answer not known				

187.	Match	the states	which	leads in	productivity	of certain	crops:
					1		I ·

States

Crops

- (a) Andhra Pradesh
- 1. Groundnut
- (b) Maharashtra
- 2. Maize
- (c) Punjab
- 3. Rice

(d)

- (d) Tamil Nadu
- 4. Sugarcane
- (a) (b) (c)
- (A) 1 3 2 4
- (B) 4 1 3 2
- (C) 3 2 4 1
- (D) 2 4 3 1
- (E) Answer not known
- 188. Not an economic factor affecting the cropping pattern in India.
 - (A) Price and Income maximization
 - (B) Availability of Inputs
 - (C) Tenure
 - (D) Irrigation
 - (E) Answer not known
- 189. Total geographical area of Tamil Nadu is
 - (A) 15.32 mha

(B) 10.46 mha

(C) 13.06 mha

- (D) 11.34 mha
- (E) Answer not known

190.	. The state having the highest cropping intensity.			
	(A)	Haryana	(B)	Punjab
	(C)	Andhra Pradesh	(D)	Tamil Nadu
	(E)	Answer not known		
191.	91. Quinquennial Review Team is constituted for ———————————————————————————————————			
	(A)	3	(B)	6
	(C)	5	(D)	10
	(E)	Answer not known		
192.	92. Based on the recommendations of the Royal Commission Report ————————————————————————————————————			Agricultural Research was
	(A)	1908	(B)	1918
	(C)	1928	(D)	1913
	(E)	A . 1		
	(11)	Answer not known		
193.	Agric was being	Answer not known cultural Research Institute at shifted to Delhi in 1936 after g called the Indian Agricultu larly known as Pusa Institute.	a de ıral	vastating earthquake and is
193.	Agric was being	cultural Research Institute at shifted to Delhi in 1936 after g called the Indian Agricultu	a de ıral	vastating earthquake and is Research Institute but still
193.	Agric was being popu	cultural Research Institute at shifted to Delhi in 1936 after g called the Indian Agricultu larly known as Pusa Institute.	a de ıral (B)	vastating earthquake and is Research Institute but still

194.	The Planning Commission constituted a Task Group on Revampia and Refocusing of NARS in October, 2004 for the promotion of bas and strategic researches in Agriculture under whose chairmanship			
	(A)	Dr. M.S. Swaminathan	(B)	Dr. G.V.K. Rao
	, ,	Dr. R.A. Mashelkar	` /	Dr. Gajendragadkar
	(E)	Answer not known	()	• 3
195.	95. The ———— sector has the highest share of Net State Don product of Tamil Nadu.			
	(A)	Agriculture	(B)	Industry
	(C)	Services sector	(D)	Manufacturing
	(E)	Answer not known		
196.	6. After independence, the Government of India appointed the National Income Committee in the year ————————————————————————————————————			
	(A)	1948	(B)	1952
	(C)	1949	(D)	1954
	(E)	Answer not known		
197. The first five year plan was formulated and implemen period				ed and implemented for the
	(A)	1956-61	(B)	1951-1956
	(C)	1952-1957	(D)	1950-1954
	(E)	Answer not known	, ,	

- 198. The Gangetic plains region prone to frequent flooding is
 - (A) Upper gangetic plains region
 - (B) Middle gangetic plains region
 - (C) Lower gangetic plains region
 - (D) Trans-Gangetic plains region
 - (E) Answer not known
- 199. In five year plans which year of five year plan is incorrect?
 - (A) First five year plan 1951-56.
 - (B) Second five year plan 1956-61
 - (C) Third five year plan 1961-66
 - (D) Fourth five year plan 1980-1985
 - (E) Answer not known
- 200. The second five year plan laid emphasis on
 - (A) Diversified agriculture
 - (B) Development of livestock
 - (C) Intensive Farming Practices
 - (D) (A) and (B)
 - (E) Answer not known