COMBINED TECHNICAL SERVICES EXAMINATION
(NON-INTERVIEW POSTS)

COMPUTER BASED TEST

PAPER – II – AGRICULTURE
(DEGREE STANDARD) (CODE: 284)

1.	Cent	trai Sociai Wellare Board (CSW	<u> </u>
	(A)	1952	(B) 1953
	(C)	2001	(D) 2006
	(E)	Answer not known	
2.		of two or more people in raction with each other	reciprocal communication and
	(A)	Family	(B) Group
	(C)	Society	(D) Community
	(E) ·	Answer not known	
3.		type of evaluation is carried or planning and implementation o	out by the agency responsible for of the programme
	(A)	External evaluation	(B) Ex-post facto evaluation
	(C)	Internal evaluation	(D) Self evaluation
	(E)	Answer not known	
4.		s the process of involving loop epretation of a rural situation	ocal 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	

0		1 (113/3/D)						
6.		Expand 'HYVP'						
	(A)							
	(B)	(B) Hybrids Yielding Varietal Programme						
	(C)	High Yielding Venture	Project					
	(D)	Hybrid Yielding Ventur	e Plan					
-	(E)	Answer not known						
7.	ORI	P stands for						
	(A)	(A) Online Research Project						
	(B)	Operational Research P	Project					
	(C)	Online Research Progra	amme					
	(D)	Offline Research Progra	amme					
	(E)	Answer not known						
8.	ATI	C stands for						
	(A)	Agricultural Technology	y Information Council					
	(B)							
	(C)	Agricultural Technology Information Centre						
	(D)							
	(E)	Answer not known						
9.		relative speed with whic social system is	h an innovation is adopted by members					
	(A)	Rate of adoption	(B) Degree of motivation					
	(C)	Rate of Diffusion	(D) Speed of Diffusion					

(E) Answer not known

10. Qualities, Characteri		lities, Characteristic of traits p	ossessed 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 munication?	traditional and simple aid of
	(A)	Model	(B) Puppet show
	(C)	Radio	(D) TV
	(E)	Answer not known	

15.	It is a system of signals for communication			ion
	(A)	Encoder	(B)	Code
	(C)	Decoder	(D)	Message
	(E)	Answer not known		
16.		ee are visual symbols for sumr erforming other services in expl		
	(A)	Bulletin board	(B)	Charts
	(C)	Make-up	(D)	Specimens
	(E)	Answer not known	` ′	-
17.		se are in the shape of circles an e up the whole	d us	ed to show how several parts
	(A)	pie charts	(B)	overlay charts
	(C)	flip chart	(D)	tree chart
	(E)	Answer not known		
18.	Out	of school system of education fo	r ad	ults and youths
	(A)	extension		
	(B)	open and distance education		
	(C)	adult education		
	(D)	none of the above		
	(E)	Answer not known		
19.	for p	identified three types ower, need for affiliation and n		asic motivating needs – need for achievement.
	(A)	Wilson and Gallup	(B)	McClelland
	(C)	Kootz and Others	(D)	Knowles
	(E)	Answer not known		

	prac stat		ıdy beer	n established in the research		
	(A)	Method demonstration	(H)	Result demonstration		
	(C)	Minikit trials	(D)	None of the above		
	(E)	Answer not known				
21.	Whi	ch one does not fall under 5'	c's of cre	edit?		
	(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				
	(O)	(Of Amortized decreasing repayment plan				
	(D)	(D) Amortized even repayment plan				
	(E)	Answer not known				
23.		co-operative credit societie model of	s in Ind	lia were organised based on		
	(A)	Single window	(B)	Raiffeisen		
•	(C)	Mehta	(D)	Acharya		
	(E)	Answer not known				

It is a way of showing people the value or worth of an improved

20.

24.	Wha	t is CRR?		
	(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	(DII	R) was implemented by the
	(A)	1950	(B)	1969
	(\mathbf{C})	1975	(D)	1982
•	(E)	Answer not known		
26.	The	first co-operative societies act v	vas p	passed in
	(A)	1894	(B)	1904
	(C)	1924	(D)	1948
	(E)	Answer not known		
27.	Expa	and SFDA		
	(A)	Swedish Federation of Develo	pme	nt Assistance
	(B)	Small Farmers Development	Agen	ncy
	(C)	Small Farmers Development	Autḥ	ority
	(D)	Small Fishermen Developmen	t Ag	rency
	(E)	Answer not known		
28.	The	Reserve Bank of India was esta	ıblis.	hed in the year
	(A)	1925	(B)	1930
	(C)	1935	(D)	1940
	(E)	Answer not known		

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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	additional income received f	rom	using an additional unit	of	
	(A)	Gross income	(B)	Profit 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

57.	1116	Masticity of production is	zero when	ii.
	(A)	APP is maximum	(B)	MPP is maximum
	(C)	APP = MPP	(B)	MPP is zero
	(E)	Answer not known		
38.	Whi	ch of the following is inclu	ded in cor	nputing cost A_2 ?
	(A)	Depreciation		
	(B)	Rental value of owned la	nd	
	(C)	Rental value of leased in	land	
.•	(D)	Imputed value of family	läbour	•
	(E)	Answer not known		
39.	The	demand for farm machine	es is a	
	(A)	Direct demand	(B)	Kinked demand
	(C)	Consumer demand	(D)	Derived demand
	(E)	Answer not known		
40.		following one is include sions	d in 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.		ler seed village concept, towing kinds of seeds	he farmer	rs 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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42.		The physical or chemical method of softening the hard seed coat to 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 particle n electric field is called	s through a fluid under the action			
	(A)	Osmosis	(B) Hydrolysis			
	(C)	Electrophoresis ·	(D) Polymerase chain Reaction			
	(E)	Answer not known				
44.	genu	_	d samples for determination of grow out test of Bajra and Jute			
	(A)	25 gms	(B) 200 gms			
	(C)	100 gms	(D) 50 gms			
	(E)	Answer not known				
45.	_	per the ISTA, a minimum n	umber of seeds to be tested for			
	(A)	, 100	(B) 200			
	(C)	400	(D) 50			
	(E)	Answer not known				

-		per the ISTA, additional recommends 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 and millet is ———————————————————————————————————	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.		In three line hybrid seed production system, ————————————————————————————————————				
	(A)	A Line	(B) B Line			
	(C)	R-Line ·	(D) CMS line			
	(E)	Answer not known				
52.	are	-	found in the seed field and whose seeds seed that it is difficult to separate then I means are termed as			
	(A)	Objectionable weed p	lants			
	(B)	(B) Pollen shedders				
	(C)	(C) Designated diseased plants				
	(B)					
	(E)	Answer not known				
53.	Nuc met		ines are maintained by ————			
	(A)	Cagging	(B) Crossing			
	(C)	Selfing and Sibling	(D) Top cross			
	(E)	Answer not known				

54.		yer of nutritional tissue of dip nucellus is referred as	oloid	maternal origin arisen from		
•	(A)	Endosperm	(B)	Perisperm		
	(C)	Scutellum	(D)	Cotyledon		
	(E)	Answer not known				
55.	Whi	ch of the following is designate	d dis	ease of Bajra?		
	(A)	Loose smut	(B)	Green ear		
	(C)	Alternaria blight	(D)	Anthracnose		
	(E)	Answer not known ·		•		
56.	Moisture content of seeds higher than recommended level leads to					
	(A)	Loss in seed inability				
	(B)	Growth of microorganisms		•		
	(C)	Attack by storage insect pests	}			
	(\mathbf{D})	All the above				
	(E)	Answer not known				
57.		nber of plants to be observed : ect of sesame seed crop during		-		
	(A)	1000 plants	(B)	500 plants		
	(C)	100 plants	(D)	200 plants		
	(E)	Answer not known				

58.		imum seed certification sta entage of Blackgram certified	ndard prescribed for germination l seed is			
	(A)	75%	(B) 85%			
	(C)	60%	(D) 90%			
	(E)	Answer not known				
59.	Max seed	-	prescribed for soybean certified			
	(A)	10 no./kg of seed	(B) 20 no./kg of seed			
	(C)	·50 no./kg of seed \cdot	(D)· 40 no./kg of seed			
	(E)	Answer not known				
60.	The seed control order was passed in the year					
	(A)	1966	(B) 1983			
	(C)	1989	(D) 2001			
	(E)	Answer not known				
61.	Podsolization process usually occurs in					
	(i)	Humid climate				
	(ii)	Acid soil				
•	(iii)	High rainfall areas	,			
	(iv)	Alkaline soils				
	(A)		nmoat			
	(P)	Statement (i) and (ii) are constatement (i), (ii) and (iii) and				
	(C)	Statement (i), (ii) and (iv) a				
	(D)	All are correct	·			
	(E)	Answer not known				
	` '					

62.	At w	hat tension capillary water i	s 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.	Apatite is a group of minerals which mainly contains						
	(A)	Sulphur	(B) Titanium				
	(C)	Zinc	(D) Phosphate				
	(E)	Answer not known					
64.	A no	on-heme iron-sulphur protein	occurs in the chloroplast is				
	(A)	Sulpho-lipid	(B) Biotin				
	(Q)	.Ferredoxin	(D). Hematin				
	(E)	Answer not known					
65.	Universal Soil Loss Equation (USLE) is used to compute						
	(A)	Soil conservation	(B) Soil porosity				
	(0)	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	(D) Soil porosity				
	(E)	Answer not known					

67.		per ISSS system of soil particle is — mm.	ticle classification, the size of silt			
	(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 achieve	ed through			
	(A)	Land evaluation				
	(B)	Soil resource inventory				
	(C)	C) Data on land characters and qualities				
	(D)	All of them				
	(E)	Answer not known				
69.		——— is a ferromagnesian n of tetrahedron.	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 in					
	(A)	ms/100g	(B) dSm^{-1}			
	(C)	g/cc	(D) ohms/m			
	(E)	Answer not known	•			
72.		akdown of Indole Acetic Acid	l (IAA) is favoured by the excess			
	(A)	Manganese	(B) Iron			
	(C)	Boron	(D) Potassium			
	(E)	Answer not known				
73.		method of assessing 'Gypsum proposed by	n requirement' 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 ca	pability classification system is			
		Capability unit	(B) Capability sub class			
	(C)	Capability class	(D) None of these			
	(E)	Answer not known				
75.	The	growth expression equation o	of $Y = M(1 - R^x)$ is given by			
	(A)	Mitscherlich	(B) Gapon			
	(C)	Liebig	(b) Spillman			
	(E)	Answer not known				

76.		oil fertility evaluation, 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 r	osmotic pressure (OP) and Electrical mixtures in saline soils is given by the
	(A)	OP (atmospheres/bars)	$0 = 0.36 \times EC (dSm^{-1}) \qquad .$
	(B)	OP (atmospheres/bars)	$0 = 64 \times EC (dSm^{-1})$
	(C)	OP (atmospheres/bars)	$0 = \frac{EC}{0.36} \text{ (dSm}^{-1})$
	(D)	OP (atmospheres/bars)	$0 = \frac{EC}{64} (dSm^{-1})$
	(E)	Answer not known	
78.	The	sodium hazard of irrigat	tion water is calculated by
	(A)	SAR	(B) ESP
	(C)	RSC	(D) RSBC
•	(E)	Answer not known	
79.		ratio of the electrica nage water is known as	al conductivity of applied water and
	(A)	Lime requirement	(B) Leaching requirement
	(C)	Gypsum requirement	(D) (A) and (B)

(E)

Answer not known

80.	Beno	ch terracing is usually p	racticed on slope ranging from	
	(A)	1-2%	(B) $3 - 10\%$	
	(C)	16 – 33%	(D) 11 – 15%	
	(E)	Answer not known		
81.		nursery area require are of cumbu is ———	d to raise seedlings for pla ——cents	nting one
	(A)	20	(B) 10	
	(C)	7.5	(D) 12	
	(E)	Answer not known		
82.	The calle		al crops and physical envir	onment is
,	(À)	Meteorology	(B) Agroclimatology	
	(4)	Agrometeorology	(D) Agroecology	
	(E)	Answer not known		
83.		important field ope ucing basal branches is	ration in sesame crop culti	vation for
	(A)	Early Weeding		
	(B)	Organic manure appl	ication	,
	, ,	Top dressing		
		Ninning		

Answer not known

(E)

84.		naize crop is planted with a s ulation for 1 hectare is	pacing of 60×30 cm, the plant
	(A)	55,555	(B) 76,666
	(C)	83,333	(D) 86,666
	(E)	Answer not known	
85.	The	Recommended spacing for beng	gal gram in Tamilnadu is
	(\mathbf{A})	$30 \text{ cm} \times 10 \text{ cm}$	(B) $30 \text{ cm} \times 15 \text{ cm}$
	(C)	$30 \text{ cm} \times 5 \text{ cm}$	(D) $30 \text{ cm} \times 30 \text{ cm}$
	(E)	Answer not known	
86.	The	recommended pre emergence —— kg ai/ha.	e herbicide 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	<u> </u>
	(A)	200	(B) 80
	(C)	400	(D) 100
	(E)	Answer not known	

88.	The	recommended dose of ——— kg N P ₂ O ₅ K ₂ O/ha	fertilizers	for 1	hybrid	cumbu	is
	(A)	70:35:35	(B) 80	: 40 : 4	10		
	(C)	90:45:45	(D) 120	0:60:	60		
	(E)	Answer not known					
89.		seed requirement of Gree ure seeder is ————		crop ii	n Rice	cum Gre	en
	(A)	60	(B) 40				
	(C).	30 .	(P) 20		•		
	(E)	Answer not known					
90.	The	recommended dose of ——— kg N, P ₂ O ₅ and K ₂		for	hybrid	maize	is
		250:75:75	(B) 100	0:75:	75		
	(C)	150:50:50	(D) 200	0:75:	75		
	(E)	Answer not known					
91.	The	ideal sowing time for wheat	t in Tamil N	ladu is	,		•
	(A)	15th October to First week	of Novembe	er			
	(B)	15th September to 15th October					
	(C)	15th December to 15th January					
	(D)	15th February to 15th Marc	ch				
	(E)	Answer not known					

92.	The process of separating list from seed 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.	Indi	a is divided into 15 Agroclimati	c zor	nes based on			
	(A)	Climate and rainfall					
	(B)	Climate		•			
	(C)	Rainfall					
	(\mathbf{P})	Physiography and Climate					
	(E)	Answer not known					
95.	The	short range weather forecast is	for a	a period of			
	(A)	1–2 days	(B)	3–4 days			
	(C)	5–6 days	` '	More than a week			
	(E)	Answer not known	` ,				

96.	refer	-	at a given time and place with are, moisture, wind speed and
	(A)	Meteorology	(B) Climatology
	(C)	Weather	(D) Hydrology
	(E)	Answer not known	
97.	The	lower layer of atmosphere is re	ferred 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.		9	of a crop with the least possible
	soil	disturbance during tillage oper	1
•	(A)	Zero tillage	(E) Minimum tillage
	(C)	Wet tillage	(D) Conventional tillage
	(E)	Answer not known	

100.		prediction and forecasti s to 48 hours is	ng n	nonsooi	n rainfall development a few		
	(A)	Short range forecast		(B)	Middle range forecast		
	(C)	Long range forecast			None		
	(E)	Answer not known					
101.		share of agriculture ive Year Plan is	and	allied	sectors to total outlay in		
		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)	(A) Codex Alimentarious Commission					
	(B)	Credit Audit Commissi	on				
	(C)	Credit Accounting Cont	trol				
	(D)	Central Administrative	Con	nmissio	on		
	(E)	Answer not known					

104.	1116	ionowing one is not a blue box measure in wife
	(A)	Decoupled income supports
	(B)	Payments not linked to production
	(C)	Tariff
	(D)	Income safety net programmes
	(E)	Answer not known
105.	Mini	mum support price for farm commodities are recommended by
	(A)	FCI (B) STC
	(C)	FCI CACP (B) STC (D) NAFED
	(E)	Answer not known
106.		is the price at which essential commodities are made able to the consumers at fair price shops.
	(A)	Minimum support price (B) Procurement price
	(C)	Support price (P) Issue price / Fair price
	(E)	Answer not known
107.	Brea	k-even Point (BEP) is calculated as follows.
	(A)	Fixed cost Sales projected – Variable cost
		$\frac{\text{Fixed cost}}{\text{Sales projected - Variable cost}} \times 100$
	(C)	$\frac{\text{Fixed cost}}{\text{Sales projected - Variable cost}} - 100$
	(D)	$\frac{\text{Fixed cost}}{\text{Sales projected - Variable cost}} \div 100$
	(E)	Answer not known
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108.	. Which is not an advantage of a cooperative form of business?		ive form of business?				
	(A),	Easy formation	(B)	Limited liability			
	(0)	Lack of secrecy	(D)	State Assistance			
	(E)	Answer not known					
109.	Expand NWR						
	(A)	National Warehouse Receipt		· ·			
	(B)	·					
	(0)	Negotiable Warehouse Receipt	t				
•	(D)	Negotiable Warehouse Rate		•			
	(E)	Answer not known					
110.	The l	loans that help the farmers to o	verc	ome distress sales are			
	(A)	Production loans					
	(P)	Marketing loans					
	(C)	Consumer loan					
	(D)) Jewel loan					
	(E)	Answer not known					
111.	KHĄ	I is an example for stor	rage	structure.			
	(A)	Mud pots					
	(B)	Metal drum					
	(C)	Gunny bag					
	(I)	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	
	(B)	Mandatory	
	(E)	Answer not known	
	. 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
	(0)	200	(D) 400
•	(E)	Answer not known	
114.	Tran	sportation adds	
	(A)	Form utility	(P) Place utility
	(C)	Time utility	(D) Possession utility
	(E)	Answer not known	
115.	The curve representing all combinations of X_1 and X_2 that produce the same level of output is referred to as		
	(A)	Indifference curve	(B) Iso-quant
	(C)	Iso-cost line	(D) Iso-Revenue line
	(E)	Answer not known	

116.	take the ownership of the commodities through purchasing activity and attempt to make profit from the future price movements.					
	(A) (B)	Processing agent Merchant middlemen				
	(C)	Agent middlemen				
	(D)	Speculative middlemen				
	(E)	Answer not known				
117.		refers to purchase or sale of a commodity in a futures market accompanied by sale or a purchase in the cash market.				
		Hedging				
	(B)	Speculation				
	(C)	Contract .				
	(D)	Insurance			•	
	(E)	Answer not known				
118.		n a large number of seller rentiated form of a commodity,				and
	(A)	Oligopoly	(B) Mon	opolistic c	ompetiti	ion
	(C) _.	Duopoly	(D) Mon	opoly		
	(E)	Answer not known				
119.	Time	utility is provided by				
	(A)	Transport function	(B) Proc	essing fur	nction	
	(C)	Storage function		ng functio		
	(E)	Answer not known	(= / ~ · · · · · · · · ·	9		

120.	perfo	n a firm or agency gains cor orming similar marketing fun ceting sequence is termed as	ntrol	of other firms or agencies as at the same level in the
	(A)	Vertical Integration	(E)	Horizontal Integration
	(C)	Conglomeration	(D)	Forward Integration
	(E)	Answer not known		
121.	Whic	ch of the following is an introdu	ıced	pest?
		Spiralling Whitefly	(B)	American Boll worm
	(C)	Cabbage semi looper	(D)	Fruit fly in guava
	(E)	Answer not known		
122.	The	study of circadian rhythm in ir	rsect	is called
	(A)	Neurobiology	(B)	Chronobiology
	(C)	Chemobiology	(D)	Mechnobiology
	(E)	Answer not known		
123.	Ecol	ogy is defined as the study of o	rgan	isms at home is given by
		Eugene P. Odum		Andrewartha
	(C)	Ernst Haeckel		H. Painter
	(E)	Answer not known		•
124.		ite tip" disease of rice is ca	aused	l by which of the following
	(A)	Ditylenchus angustus	(B)	Aphelenchoides besseyi
_	(C)	Hoplolaimus sp.	(D)	Belonolaimus sp.
	(E)	Answer not known		
		·		

125.		insect pest whose adults are ca oung ones feeding on the roots		
	(A)	Rice Weevil	(P)	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)	_	, ,	
127.		ng out of brown resinous fluid i e attack of	from	the fruits of cucurbits is due
	(A)	Stem Fly	(B)	Shoot Fly
	(C)	Gall Fly	(D)	Fruit Fly
	(E)	Answer not known		
128.	Wha	t is the mode of action of Spiro	mesi	fen?
	(A)	Moulting disrupter	(B)	Inhibitors of ATP synthase
	(C)	Inhibitors of Chitin synthesis		
	(E)	Answer not known	(-• /	
129.		ch one of the following in otoxicity on onion?	nsect	cicides is likely to cause
	(A)	Monocrotophose	(B)	Imidacloprid
	(C)	Dimethoate	(\mathbb{P})	Profenophos
	(E)	Answer not known		

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The	ne ETL for leaf infesting mite in cotton is			
(A)	5 per cm ²	(B) 10 per cm ²		
(C)	15 per cm ²	(D) 20 per cm ²		
(E)	Answer not known			
		eas, the ETL for rice green leaf		
(A)	5 / hill	(B) 5/hiller		
(C)	2 / hill	(D) 2/hiller		
(E)	Answer not known	•		
Whic	ch one of the following insectic	ide is more safe to honey bees?		
	Diflubenzuron	(B) Chlorpyriphos		
(C)	Cypermethrin	(D) Imidacloprid		
(E)	Answer not known			
quar	antine stations were started			
(A)	Eriosoma lanigerum on apple			
(B)	' <u>Phthorimaea operculella</u> on p	otato .		
(C)	<u>Icerya purchasi</u> on wattle			
(D)	Coccus vividis on coffee			
(E)	Answer not known	•		
	(A) (C) (E) In R hopp (A) (C) (E) Whice (C) (E) To r quar Sher (A) (B) (C) (D)	 (A) 5 per cm² (C) 15 per cm² (E) Answer not known In Rice Tungro virus endemic are hopper is (A) 5 / hill (C) 2 / hill (E) Answer not known Which one of the following insectic (A) Diflubenzuron (C) Cypermethrin (E) Answer not known To prevent the spread of quarantine stations were started Shenbaganur during 1943. (A) Eriosoma lanigerum on apple (B) Phthorimaea operculella on positical production of the control of the		

134.	Leaf	rust disease of coffee was intro	duced into India from
	(A)	North America	(B) South America
	(C)	Europe	(D) Srilanka
	(E)	Answer not known	
135.	Effec	ctiveness of the <u>Bacillus thur</u>	ingiensis toxin will be more in
	(A)	Alkali	(B) Acidity
	(C)	Neutral	(D) No relation
	(E)	Answer not known	•
136.	Bioh	erbicide from <u>Phytophthora pa</u>	lmivora fungus is
-	(A).	Devine .	(B) Collego
	(C)	Biomal	(D) Atrazine
	(E)	Answer not known	
137.	Choo		sitoid against many lepidopteran
	(A)	Chelonus sp.	(B) Trichogramma sp.
	(C)	_	(D) Trichospilus sp.
	(E)	Answer not known	· · · · · · · · · · · · · · · · · · ·
138.		eed that depends partly or full led as	y on its host plant for growth is
	(A)	Objectionable weed	(B) Associated weed
	(C)	Satellite weed	(P) Parasitic weed
	(E)	Answer not known	

139. The formula for Weed Control Efficiency ((WCE) i	is
--	---------	----

Note:

[WPC: 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. Which of the parasitic weed is serious in Sugarcane crop?
 - (A) Cuscuta

(B) Orobanche

(C) Striga

- (D) Lovanthus
- (E) Answer not known
- 141. A ———— variety is a variety that has been traditionally cultivated and evolved by farmers.
 - (A) Breeder's

(b) Farmer's

(C) Obsolete

- (D) Extant
- (E). Answer not known
- 142. When selection favours the intermediate phenotype and acts against the extreme phenotypes, it is termed as ______.
 - (A) Directional Selection
- (3) 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 cryopreserve	ation of germplasm using liquid		
	(A)	−20°C .	(B) .–70°C .		
	(C)	−176°C	(D) −196°C		
	(E)	Answer not known			
145.	Totipotency of plant cells was predicted by ———————————————————————————————————				
	(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 by ———		
	(A)	Calcium phosphate	(b) Polyethylene glycol		
	(C)	Naphthoxy acetic acid	(D) 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		ariety 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 –				
	(\mathbf{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	terile 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.	1 2 2	difference in planting time for a	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, caies, eg. B., which is used to mak		•
	·(A)	Bridge species	(B)	Bridge cross
	(C)	Wild species	(D)	Wide cross
	(E)	Answer not known		
156.	'Ran	gpur lime' root stock of citr	us i	s used for development of
	(A)	Drought	(B)	Salinity
	(C)	Insect	(D)	Disease
	(E)	Answer not known	` '	
157.	T.,,		11	
107.		method, F_2 and rested in mass or as bulks to rai		
	(A)	Pedigree method		Bulk method
	(C)	Single-Seed Descent method	(D)	Pureline method
	(E)	Answer not known		
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	(E)	Answer not known		
	(C)	Newton	(D)	Abbe Warre
	(A)	Beeson	(B)	L.L. Langstroth
162.	In ar	tificial bee hives 'Bee space'	4	Bee Passage" was discovered
	(11)	Zuiswei not known		
	(C) (E)	Country plough Answer not known	(D)	Disc plough
	(A)	Mould board plough	· (B)	Junior hoe Disc plough
161.	cotto	n etc. is	wide	row crops like sugarcane,
	(E)	Answer not known	anio pr	
	(D)	Stigma of other flowers of s	ame pl	ant.
	(B) (C)	Stigma of flowers of another. The pollen becomes sterile	r piant	•
	(A)	Stigma of the same flower	1 (
160.		onogamy results when pollen	from a	a flower of one plant falls on
	(E)	Answer not known		
	(C)	Graminae	(D)	Leguminosae
	(A)	Pedaliaceae	(B)	Compositae
159.	Sunf	lower belongs to the family	·	
	(E)	Answer not known		
	(C)	Tetraploid \times Diploid	(D)	$Hexaploid \times Diploid$
	(A)	$Diploid \times Haploid$	(B)	$Triploid \times Hexaploid$
158.	158. Seedless watermelon is produced by crossing			ssing

163.	Thai	sac Brood virus specifically at	tacks	3		
	(A)	<u>Apis Mellifera</u>	(B)	Apis Florea		
	(C)	Apis Cerana indica	(D)	Apis Dorsata		
	(E)	Answer not known				
164.	Meth	Methods of irrigation include,				
	(i)	Flooding				
	(ii)	Furrow irrigation				
	(iii)	Sub surface irrigation				
	(iv)	Sprinkling and Drip		•		
	(A)	(i) and (ii)		(i) and (iv)		
	(C)	(i), (ii) and (iv)	(\mathbf{P})	(i), (ii), (iii) and (iv)		
	(E)	Answer not known				
165.	One cubic metre tank stores ————————————————————————————————————					
	(A)	100	(B)	10		
	(C)	1000	(D)	10,000		
	(E)	Answer not known				
.166.	The Quantity of irrigation water to be applied 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				

	•	eficiency symptoms in crop plants
(A)	Chlorosis	(B) Necrosis
(C)	Stunting	(P) All the above
(E)	Answer not known	
Whic	ch of the following Rhizobiun	n Sp. fixes nitrogen in Alfalfa?
(A)	Rhizobium meliloti	(B) Rhizobium phaseoli
(C)	Rhizobium trifolii	(D) Rhizobium lupini
(E)	·Answer not known	•
The j	potassium solubilizing bacte	ria is
(A)	Pseudomonas striata	(B) Bacillus polymyxa
(C)	Bacillus mucilaginosus	(D) Aspergillus awamori
(E)	Answer not known	
The	pathogen which restricts the	e growth of Azotobacter is
	Cephallosporium	(B) Alternaria
(C)	Fusarium	(D) Helminthosporium
(E)	Answer not known	
	-	trogenase during biological nitrogen
(A)	N_2	(B) $N \equiv N$
(C)	NO	(D) N_2O
(E)	Answer not known	
	(A) (C) (E) Whice (A) (C) (E) The (A) (C) (E) One fixat (A) (C)	include (A) Chlorosis (C) Stunting (E) Answer not known Which of the following Rhizobium (A) Rhizobium meliloti (C) Rhizobium trifolii (E) Answer not known The potassium solubilizing bacte (A) Pseudomonas striata (C) Bacillus mucilaginosus (E) Answer not known The pathogen which restricts the (A) Cephallosporium (C) Fusarium (C) Fusarium (E) Answer not known One of following is reduced by nifixation (A) N ₂ (C) NO

	(A)	Urea	(B) DAP		
	(C)	Ammonium Chloride	(D) Ammonium Sulphate		
	(E)	Answer not known			
173.		· · · · · · · · · · · · · · · · · · ·	root and stem nodules in the		
	plant	t:			
	(A)	Sesbania rostrata	(B) <u>Sesbania aculeata</u>		
	(C)	Sesbania speciosa	(D) <u>Sesbania grandiflora</u>		
	(E)	Answer not known	·		
174.	The f	fresh poultry manure droppings	s contain		
	(A)	50% moisture, 1.0% N, 0.5% P			
	(B)	60% moisture, 1.0% N, 0.75%			
		75% moisture, 1.5% N, 1.2% P			
	(D)	90% moisture, 2.5% N, 2.0% P	· ·		
	(E)	Answer not known			
175.	Which of the following is not a method of nutrient absorption by the				
	crop	plants?			
	(A)	Mass flow	(B) Diffusin		
	(C)	Root interception	(B) Nutrient exchange		
-	(E)	Answer not known			

172. Organic N content of soil increases steadily with the application of

176. Algalization of rice crops has been fertilizers to the extent of		foun	d to supplement nitrogenous	
	(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.	Bang	galore method of composting wa	ıs de	eveloped by
	(A)	Acharya and Subramanian		
	(B)	Howard and Wad		
	(C):	Pandhari pande		•
	(D)	Wiley		
	(E)	Answer not known		
178.		ct or indirect harmful effect the ugh release of chemical substar		-
	(A)	Annidation	(B)	Allelopathy
	(C)	Complementary	(D)	Companion
	(E)	Answer not known	•	
179.	What is the LER (Land equivalent ratio) of the given cotton based cropping system?			
	Inte	cotton yield – 15 q rcrop cotton yield – 12 q Blackgram yield – 5 q		
		rcrop Blackgram yield – 3 q		
	(A)		(R)	1.2
	(A)	1.4	` ′	1.6
	(E)	Answer not known	(1)	1.0
	(11)	IIIOWOI HOU MIOWII		

180.	Pressmud 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.		unique institution under ICAR cultural Management is	to c	conduct Research Training in	
	(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)	Special Economic Zones (SEZs)		
	(B)	Export Processing Zones (EPZ	s)		
	(C) Free Trade and Warehousing Zone (FTWZs)			e (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 — % of Global land and 17 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:

States Crops (a) Andhra Pradesh Groundnut 1. (b) Maharashtra Maize 2. (c) Punjab 3. Rice (d) Tamil Nadu 4. Sugarcane (a) (b) (c) (d) (A) 1 4 (B) 2 4 (C)3 2.4 1 2 1

188. Not an economic factor affecting the cropping pattern in India.

- (A) Price and Income maximization
- (B) Availability of Inputs

Answer not known

(C) Tenure

(E)

- (1) Irrigation
- (E) Answer not known

189. Total geographical area of Tamil Nadu is

(A) 15.32 mha

(B) 10.46 mha

(**6**) 13.06 mha

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

190.	The	state having the highest croppi	ing intensity.	
	(A)	Haryana	(b) Punjab	
	(C)	Andhra Pradesh	(D) Tamil Nadu	
	(E)	Answer not known		
191.	-	ew of performance of every Inst		yearly
	(A)	3	(B) 6	
	(C)	5	(D) 10	
	(E)	Answer not known		•
192.	Based on the recommendations of the Royal Commission Report of ———————————————————————————————————			
	(A)	1908	(B) 1918	
	(C)	1928	(D) 1913	
	(E)	Answer not known		
193.	Agricultural Research Institute at Pusa, Bihar, created in ———————————————————————————————————			
	(A)	1805	(B) 1815	
-	(0)	1905	(D) 1915	•
	(E)	Answer not known		

194.	and	Refocusing of NARS in October	ted a Task Group on Revamping r, 2004 for the promotion of basic cure under whose chairmanship?		
	(4)	Dr. M.S. Swaminathan	(B) Dr. G.V.K. Rao		
	(C)	Dr. R.A. Mashelkar	(D) Dr. Gajendragadkar		
	(E)	Answer not known			
195.	The ——— sector has the highest share of Net State Domestic product of Tamil Nadu.				
•	(A)	Agriculture .	(B) Industry .		
	(C)	Services sector	(D) Manufacturing		
	(E)	Answer not known			
196.	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,		ulated and implemented for the		
	(A)	1956-61	(P) 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
 - (I) 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