Post of Forest Apprentice in Tamil Nadu Forest Subordinate Service (Group-VI Services)

1.	Seed dealers should obtain licence to carry business of selling of seeds a per the							
	(A)	(A) Essential Commodities Act, 1955						
	(B)	(B) Seeds Act, 1966						
	(C)	(C) Seed (Control) Order, 1983						
	(D)	Seed Rules, 1968						
	(E)	Answer not known						
2.	Moi	ist and conditioning in re	commende	d for ———	seed.			
	(A)	Sunflower	(B)	Ragi				
	(C)	Soybean	(D)	Paddy				
	(E)	Answer not known						
3.	Which of the following is considered as the Hub of seed quality control?							
	(A)	Seed Certification Agen	ıcy					
	(B)	(B) Seed Testing Laboratory						
	(C)							
	(D)	(D) National Seed Corporation						
	(E)	Answer not known						
4.	For	m VI of Seed Rules, 1968	deals abou	ıt				
	(A)							
	(B)							
	(C)							
	(D)	Details of sample taken	by Seed Ir	spector				
	(E)	Answer not known						

5.	Which of the following is not a Routine test in Seed Testing Laboratory?							
	(A)	Seed germination test		Seed vigour test				
	(C)	Seed moisture test		Physical purity test				
	(E)	Answer not known						
6.		al Count of Germination for Gr s after sowing.	ound	lnut seed is to be taken on ———				
	(A)	7	(R)	10				
	(C)	14	(D)	21				
	(E)	Answer not known						
7.			ation	of genetic purity on the basis of				
		seed characters under laboratory.						
	` ′ _	Grow-out test						
	_	Other distinguishable varietie	es tes	st				
	(C)	Germination test						
		Vigour test						
	(E)	Answer not known						
8.	The be	minimum population required	l for	taking observation in GOT shall				
	(A)	2000 plants	(B)	800 plants				
	(C)	400 plants	(D)	200 plants				
	(E)	Answer not known		•				
9.	Phe	nol test is used for identificatio	n of	varieties in testing genetic purity				
	(A)	Oat	(R)	Wheat				
	(C)	Barley	(D)	Ragi				
	(E)	Answer not known						
AGR	ICUL	TURE 4						

10.	Identify the incorrect pair on the basis of maximum size of seed lot in seed sampling.						
	(A)	m Rice-20,000~kg	(B)	Maize – 25,000 kg			
	(C)	Sorghum - 10,000 kg	(D)	Finger Millet $-10,000 \text{ kg}$			
	(E)	Answer not known					
11.		first State to establish the of 0 as a part of Dept. of Agricultu		seed certification agency during			
	(A)	Tamil Nadu	(B)	Karnataka			
	(C)	Andhra Pradesh	(D)	Maharashtra			
	(E)	Answer not known					
12.	Seed	d rate of sun hemp is	1	xg/ha.			
	(A)	6–8 kg/ha	(B)	8–10 kg/ha			
	(G)/	∕ 10–12 kg/ha	(D)	12–14 kg/ha			
	(E)	Answer not known					
13.	Minimum isolation distance should be maintained for the production of foundation stage of maize seed.						
	(A)	200 m	(B)	300 m			
	(C)	400 m	(D)	500 m			
	(E)	Answer not known					
14.	The	objectionable weed in wheat is					
	(A)	(A) Agremone mexicana					
	(R)	<u>Convolvulus</u> <u>arvensis</u> (Hiran	Khur	ri)			
	(C)	Red rice					
	(D)	Wild abelmoschus					
	(E)	Answer not known					

15.		ch one of the following classe ng in Tamil Nadu?	s of	seed is not being practiced (or)
	(A)	Nucleus seed	(B)	Registered seed
	(C)	Certified seed	(D)	Foundation seed
	(E)	Answer not known		
16.		at is the prescribed minimus is luction in Redgram varieties?	solat	ion distance for foundation seed
	(A)	200 m	(B)	100 m
	(C)	400 m	(D)	600 m
	(E)	Answer not known		
17.	Whi	ch light promotes germination:	in se	eds?
	(A)	Red light (660 mu)	(B)	Blue light (735 mu)
	(C)	Green light (750 mu)	(D)	Yellow light (800 mu)
	(E)	Answer not known		
18.		Seed Production, certification pulsory for notified kind or vari		•
	(A)	Labelling	(B)	Packing
	(C)	Selling	(D)	Weighing
	(E)	Answer not known		

19.	Match the following sc cleaner used in Seed Pro			_		is with its function in a typical four-screen sing Unit:	
		Scree	en			Function	
	(a) First screen			n	1.	Fine grading	
	(b)	(b) Second screen			2.	Close scalping	
	(c)	Thir	d scree	en	3.	Grading	
	(d)	Fourth screen		4.	Scalping		
		(a)	(b)	(c)	(d)		
	(A)	4	3	2	1		
	(B)	4	3	1	2		
	(C)	4	2	3	1		
	(D)	4	1	3	2		
	(E)	Ans	wer no	t knov	vn		
20.	Kernel colour variation termed as metazenia is to be removed before processing of seeds in ———————————————————————————————————						
			_	eds in		crop.	
	(A)	Sor	ghum			(B) Maize	
	(C)	Bajı	ra			(D) Groundnut	
	(E)	Ans	wer no	t knov	vn		
21.	Cus	cutta	sp. is	a para	sitic w	veed on	
	(A)	Oni	_	•		(B) Rice	
	(C)		ckgran	ı		(D) Greengram	
	(E)		Ü	t knov	vn	. ,	

22.	Pre-plant incorporation of herbicides are applied							
	(A)	after sowing of crop						
	(B)	(B) before sowing or planting of crop						
	(C)	(C) during the grand crop growth						
	(D)	after emergence of weeds						
,	(E)	Answer not known						
23.		odon dactylon is a major weed re dying is belongs to the categ		rop lands reproduce several times of				
	(A)	Annual weed	(B)	Biennial weed				
	(C)	Emergent weed	(I)	Perennial weed				
	(E)	Answer not known						
24.	Whi	ch of the following fungal anta	gonis	stics towards plant pathogens?				
	(A)	Trichoderma	(B)	Pseudomonas				
	(C)	Bacillus	(D)	Agrobacterium				
	(E)	Answer not known						
25.	Whi	ch of the following insect order	cont	cains maximum parasitoids?				
	(A)	Diptera	(B)	Hymenoptera				
	(C)	Neuroptera	(D)	Coleoptera				
	(E)	Answer not known						
26.		Larval Equivalent (LE) can b irus infected larvae.	e ha	nd from ————— fully grown				
	(A)	One	(B)	Two				
	(G)	Three	(D)	Four				
	(E)	Answer not known						

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27.	In which of the formulation the pesticide is used undiluted at a quantity less than 2.0 lit per ha.						
	(A)	Low volume	(B) Ultra low volume				
	(C)	High volume	(D) None of the above				
	(E)	Answer not known					
28.	Exa	mple for tablet formulation of j	pesticide.				
	(A)	Zinc phosphide	(B) Aluminium phosphide				
	(C)	Hydrogen cyanide	(D) Activated clay				
	(E)	Answer not known					
29.	Pest	ticide residue tolerance limit	in ppm are fixed under —				
	(A) Prevention of Food Adulteration Act, 1954						
	(B)	B) The Infecticidal Act, 1968					
	(C)	(C) Poinsons Act, 1919					
	(D)	(D) Drugs and Cosmetics Act, 1940					
	(E)	Answer not known					
30.	Which of the following insecticidal formulation in comparatively highly toxic to beneficial insects?						
	(A)	Wettable Powders (WP)	(B) Soluble Powders (SP)				
	(6)	Dusts (D)	(D) Granules (G)				
	(E)	Answer not known					
31.	In I	ndia, pesticide resistance was f	first reported in case of				
	(A)	American bollworm	(B) Cotton Whitefly				
	(C)	Rice Brown Plant Hopper	(b) Singhara beetle				
	(E)	Answer not known					

32.	An I	Insecticide isolated from bacte	ria is			
	(A)	Vertimec	(B)	Spinosad		
	(C)	Imidacloprid	(D)	Cartap		
	(E)	Answer not known				
33.	Whi	ich one of the following is a fur	nigan	ıt?		
	(A)	Zink phosphide	(R)	Aluminium phosphide		
	(C)	Thiacloprid	(D)	Phosphomidan		
	(E)	Answer not known				
34.		ability of an insect to multip ironmental resistance is known	-	the given time, in the absence of		
	(A)	Biotic Potential	(B)	Environmental Resistance		
	(Q)	Reproductive Potential	(D)	Biological Resistance		
	(E)	Answer not known				
35.	The pink globular subterranean insect which develops by parthenogenetic and viviparous methods and causes wilting and drying of the plants is					
	(A)	Rice root weevil	(R)	Ragi root aphid		
	(C)	Sugarcane root grub	(D)	Cotton root weevil		
	(E)	Answer not known	. ,			
36.	The	hymenopteran pest which att	ack tł	ne red gram is		
	(A)	Athalia lugens proxima	(B)	<u>Lipaphis</u> <u>erysimi</u>		
	(C)	Tanaostigmodes cajaninae	(D)	Ceroplastodes cajani		
	(E)	Answer not known		-		

32.

AGRICULTURE

37.	The site of pupation for jasmine budworm is							
	(A)	Jasmine bud	(B) Soil					
	(C)	Unopened flower	(D) Leaf petiole					
	(E)	Answer not known						
38.		d out the wrong pair of disea	ses introduced into India from other					
	(A)	(A) Grapes downy mildew and onion smut						
	(B)	(B) Potato warf and powdery mildew of enensials						
	(C)) Banana Bunchy top and coffee rust						
	(D)) Black rot of crucifers and Downy mildew of maize						
	(E)	Answer not known						
39.	Major source for the survival of plant pathogen is							
	(A)	Seed	(B) Soil					
	(C)	Water	(D) Host Plant					
	(E)	Answer not known						
40.		book "Systema Naturae" is ogist and Physician.	written by the Swedish Botanist,					
	(A)	Gaspard	(B) J. Anderson					
	(C)	Johann	(D) Carl Linnaeus					
	(E)	Answer not known						

	(A)	A) Indemnity = $\frac{\text{Actual yield of crop}}{\text{Short fall in yield of crop}} \times \text{Sum insured}$			
	(B)	Indemnity = $\frac{\text{Potential yield}}{\text{Threshold yield}} \times \text{Su}$	ım insı	ured	
	ield of crop				
	(D)	(B) Indemnity = $\frac{\text{Short fall in the yield of crop}}{\text{Threshold yield of crop}} \times \text{Sum insured}$			
	(E)	Answer not known			
42.		General Insurance Compa rance scheme in Tamil Nadu f		(GK) first introduced the crop	
	(A)	Paddy	(B)	Sugarcane	
	(C)	Cotton	(D)	Wheat	
	(E)	Answer not known			
43.	The	First bank conceived the villa	ge ad	loption scheme is	
	(A)	State Bank of India	(B)	Indian Bank	
	(C)	Bank of Baroda	(D)	Canara Bank	
	(E)	Answer not known			
44.	1BR	D, 1DA, 1FC and MIGA are co	ollecti	ively known as	
	(A)	RBI	(B)	SBI	
	(C)	IDBI	(D)	The World Bank	
	(E)	Answer not known			
45.	Num	nber of Banks nationalized in	1969		
	(A)	10	(B)	14	
	(C)	20	(D)	25	
	(E)	Answer not known			
AGRI	CUL	TURE 12	2		

Indemnity payable under the crop Insurance Scheme is

41.

	Gov	ernment and sponsoring bank	in th	e ratio of
	(A)	50 : 15 : 35	(B)	50:35:15
	(C)	50:25:25	(D)	50:40:10
	(E)	Answer not known		
47.	Serv	vice Area approach was first in	trodu	iced in
	(A)	1950	(B)	1969
	(C)	1982	(D)	1 989
	(E)	Answer not known		
48.	The	introduction of Kissan credit c	ard v	was announced in the year
	(A)	1985–86	(B)	1995–96
	(Q)	1998–99	(D)	2001–02
	(E)	Answer not known		
49.	Whierisk:		rmin	g is regarded as defence against
	(A)	Dry farming	(B)	Ranching
	(0)	Diversified farming	(D)	Specialised farming
	(E)	Answer not known		
50.		discount rate at which the pect is equal to zero	orese:	nt values of net cash flows of a
	(A)	Internal Rate of Return	(B)	Net Present Worth
	(C)	Benefit Cost Ratio	(D)	Time Value of Money
	(E)	Answer not known		

RRB's share capital being subscribed by Central Government, State

46.

- 51. Partial budgeting is used to analyse
 - (A) Enterferise substitution
- (B) Input substitution
- (C) Scale or size of operation
- (D) All of them
- (E) Answer not known
- 52. Seeds, fertilizers, feeds etc. are example of
 - (A) Stock resources

- (B) Mono-period resources
- (C) Variable resources
- (D) All of them
- (E) Answer not known
- 53. Marginal Product is indicated by the slope of
 - (A) Total Product Curve
- (B) Total Cost Curve
- (C) Iso-Quant Curve
- (D) Iso-Cost Curve
- (E) Answer not known
- $54. \quad \frac{D_1 Y_2}{\Delta_1 Y_1} > \frac{\Delta_2 Y_2}{\Delta_2 Y_1} > \frac{\Delta_3 Y_2}{\Delta_3 Y_1} \cdots \frac{\Delta_n Y_2}{\Delta_n Y_1} \text{ represents}$
 - (A) Fixed Proportion of input combination
 - (B) Constant rate of input substitution
 - O Decreasing rate of product substitution
 - (D) Increasing rate of product substitution
 - (E) Answer not known

55.	Give the statement and reason, select the correct answer:							
	Statement : Cost curve other.	es and production curves are the duals of each						
	Reason : Because one can be converted into the other							
	(A) Statement is wrong; reason is true							
	(B) Statement is true; reason is wrong							
	(C) Statement and reaso	n are wrong						
	(D) Statement and reaso	n are true						
	(E) Answer not known							
56.	Isoquants are linear, when resources are							
	(A) Substitutes	(B) Complements						
	(C) Perfect substitutes	(D) Perfect complements						
	(E) Answer not known							
57.	The value of return sacrificed or foregone from the next best alternative activity is called							
	(A) Implicit cost	(B) Opportunity cost						
	(C) Explicit cost	(D) Social cost						
	(E) Answer not known							
58.	Which of the following is included in Computing Cost A ₁ ? (A) Depreciation (B) Rental value of owned land							
	(C) Rental value of lease	d in land						
	` '							

(D) Imputed value of family labour

(E) Answer not known

59.		———— forming is a group	of farming fam	nilies who pool their					
	reso	ource.							
	(A)	Capitalistic	(B) Co-operativ	7e					
	(G)	Collective	(D) Peasant						
	(E)	Answer not known							
60.		s type of farming where the	ownership as	well as operation is					
	(A)	Cooperative Better farming							
	(B)	Cooperative Joint farming							
	(C)	Cooperative Tenant farming							
	(B)	Cooperative Collective farming	ıg						
	(E)	Answer not known							
61.	Vulnerable sections (below poverty line BPL families) was identified on the basis of								
	(A)	Central Banking enquiring co	ommittee						
	(B)	Dr. Lakdowala Committee							
	(C)	Balwant Rai Mehta Committ	ee						
	(D)	Ashok Mehta Committee							
	(E)	Answer not known							
62.		——— of the WTO resolve	s international t	rade disputes among					
	its n	its number countries.							
	(A)	Aggregate Measurement of S	upport						
	(B)	Dispute Settlement Body							
	(C)	Green Room Process							
	(D)	Green Box Measures							
	(E)	Answer not known							

63.	Regional grouping among a few nations on the basis of reciprocated and coordinated trade policies between them and the word is known as								
	(A)	_							
	(B) Regional Trade Arrangement								
	(C)								
	(D)	Restrained Trade Arrangem	ent						
	(E)	Answer not known							
64.		non-product specific subsidie		re is the sum of product specific					
	(A)	Aggregate measure of Suppo	ort						
	(B)	Market access							
	(C)	Export subsidies							
	(D)	Anti dumping measures							
	(E)	Answer not known							
65.		compulsion of mentioning oduced in	MRF	P (Maximum Retail Price) was					
	(A)	1990	(B)	1980					
	(C)	2020	(D)	2010					
	(E)	Answer not known							
66.		-		because the Government ered by the producers for sale					
	(A)	Issue Price							
	(B)	Statutory Minimum Price							
	(C)	Minimum Support Price							
	(D)	Prevailing Market Price							
	(E)	Answer not known							
		•							

67. The term 'entrepreneur' was introduced by				l by			
	(A)	Adam Smith	(B)	Alfred Marshall			
	(G)	Cantillon	(D)	Knight			
	(E)	Answer not known					
68.	Man	agement Cycle comprises of th	e foll	lowing sequential activities.			
	(A)	Action \rightarrow Control \rightarrow Planning					
	(B)	Action → Planning → Control					
	(C)	Planning → Control → Action					
	(B) Planning → Action → Control						
	(E)	Answer not known					
69.	AGM	MARK act was passed in the ye	ar				
	(A)	1966	(B)	1937			
	(C)	1933	(D)	1947			
	(E)	Answer not known					
70.	Cent	tral Warehousing Corporation	was	established in			
	(A)	1957	(B)	1967			
	(C)	1977	(D)	1987			
	(E)	Answer not known					
71.	Warehousing Corporation was established on the recommendation of						
	(A)	CRAFICARD	(B)	AIRCSC			
	(C)	AIRCRC	(D)	Gadgil Committee			
	(E)	Answer not known					

72.		following is not included in the ership	ie wa	rehouse classified on the basis of
	(A)	Private warehouse	(B)	General warehouse
	(C)	Public warehouse	(D)	Bonded warehouse
	(E)	Answer not known		
73.	by h	is the desire of the construction is purchasing power.	onsu	mer for the commodity backed up
	(A)	Effective demand	(B)	Derived demand
	(C)	Speculative demand	(D)	Reserve demand
	(E)	Answer not known		
74.	A m	arket having few buyers is kno	wn a	ıs
	(A)	Perfect Competition	(B)	Oligopoly
	(G)	Oligopsony	(D)	Duopoly
	(E)	Answer not known		
75.	The	concept of consumer's surplus	was	explained by
	(A)	Adam Smith	(B)	Robbins
	(C)	Marshall	(D)	Samuelson
	(E)	Answer not known		
76.	The	second stage of functional grov	vth o	f a market is
	(A)	General markets	(B)	Specialised markets
	(C)	Dealings with samples	(D)	Dealings with grades
	(E)	Answer not known	, ,	

77.	satisfying the needs and wants	ting as a human activity directed at strongh exchange process.
	(A) Philip Kotler	(B) F.L. Thomson
	(C) R.L. Kohls	(D) J.R. Moore
	(E) Answer not known	
78.	_	the expansion of firms by consolidating tions and activities under a single
	(A) Marketing Cost	(B) Marketing margin
	(C) Price spread	(A) Market integration
	(E) Answer not known	
79.	On the basis of time span o market is not included.	f the market classification the following
	(A) Short Period Market	(R) Retail Market
	(C) Long Period Market	(D) Secular Market
	(E) Answer not known	
80.	Difference between the price marketing at a given point of t	ces prevailing at successive stages of ime is termed as
	(A) Concurrent Margin	(B) Lagged Margin
	(C) Marketing Cost	(D) Price Spread
	(E) Answer not known	

81.	sect imp (A)	fors do not bypass women lemented to compliment the ge Eleventh Five Year Plan (200 Eighth Five Year Plan (1992 Ninth Five Year Plan (1997 –	and nera 07 – 1 – 97) - 200:	12)		
82.	Fatl	her of Sociology				
	(A)	Auguste Comte	(B)	A.R. Desai		
	(C)	W.A. Anderson	(D)	R, Benedict		
	(E)	Answer not known				
83.	Scie	entific method for identification	of le	eaders and leadership pattern		
	(A)	PRA techniques	(B)	RRA techniques		
	(G)	Socio metric techniques	(D)	None of the above		
	(E)	Answer not known				
84.	It is an aggregate of more than one primary family, on the basic of close blood ties and common residue.					
	(A)	Joint family	(B)	Polygynous family		
	(C)	Patri-local family	(D)	Poly yandrous family		
	(E)	Answer not known				

85.	reha			Manzil" was originally started to from Pakistan was initiated by
	(A)	Etawah Pilot Project	(R)	Nilokheri experiment
	(C)	Indian Village Service		Sarvodaya Programme
	(E)	Answer not known	` '	·
86.	trad			a process of transformation from wards an acceptance and reliance
	(A)	Community Development	(R)	Rural Development
	(C)	Development	(D)	Social Development
	(E)	Answer not known		
87.	DW	CRA stands for		
	(A)	Development of water channe	l in l	Rural Areas
	(B)	Development of women and cl	nildr	ren in Rural Areas
	(C)	Development of woman care i	n Ru	ıral Areas
	(D)	Development of women and cl	nild	in Rural Areas
	(E)	Answer not known		
88.	The	'Swarnajayanthi Gram Swaroz	gan	Yojana' (SGSY) was launched on
	(A)	April, 1999	(B)	October, 1993
	(C)	November, 2001	(D)	March, 1987
	(E)	Answer not known		
89.	Is a	n idea practice, or object that is	per	ceived as new by an individual
	(A)	Attributes	(B)	Innovation
	(C)	Adoption	(D)	Perception
	(E)	Answer not known		
AGR	ICUL	TURE 22		

	(A)	Venture some	(B)	Locality
	(C)	Traditional	(D)	None of the above
	(E)	Answer not known		
91.		se people are venture some in n nology much ahead of others.	ıatur	e and first to adopt a new idea or
	(A)	Early adopters	(B)	Early majority
	(G)/	Innovators	(D)	Laggards
	(E)	Answer not known		
92.	Soft	ware for geographic and remote	e sen	sing application
	(A)	ARCGIS	(B)	ARIC
	(C)	ARIS	(D)	SPBD
	(E)	Answer not known		
93.		an electronic audio-visual m hronized sound.	ediu	m which provides pictures with
	(A)	Video-Conferencing	(B)	Television
	(C)	Radio Rural Forum	(D)	None of the above
	(E)	Answer not known		
94.	It is		ges a	are transferred from a source to
	(A)	Education	(B)	Learning
	(Q)	Communication	(D)	None of the above
	(E)	Answer not known		

Early Adopter are otherwise called

90.

95.		s the information a communic erstand accept and act upon.	ator wishes his audience to received,				
	(A)	channel	(R) message				
	(C)	receiver	(D) none of the above				
	(E)	Answer not known					
96.	Con	e of experience devised by Edge	er Dale in explaining the				
	(A)	Relation of Extension Education	on				
	(B)	Inter relations of various type	s of AV Aids				
	(C)	(C) Relationship communication					
	(D)	None of the above					
	(E)	Answer not known					
97.			stration given before a group to show ice or an old practice in a better way.				
	(A)	Frontline Demonstration	(B) Method Demonstration				
	(C)	Result Demonstration	(D) None of the above				
	(E)	Answer not known					
98.	intro	· -	ction designed to encourage the free nrestricted basis and without any				
	(A)	Workshop	(B) Brain storming				
	(C)	Seminar	(D) Buzz sessions				
	(E)	Answer not known					

99.	com			involves the conscious use of people from sound opinion and							
	(A)	Leagans (1961)									
	(B)	(B) Bhatnagar and Desai (1987)									
	(C)	(C) Van Den Ban and Hawkins (1988)									
	(D)	(D) Watts (1984)									
	(E) Answer not known										
100.	It is a method of determining the suitability or otherwise of a new practice in farmer's situation.										
	(A)	Multi location trial									
	(B) Adaptive Research trial (ART)										
	(C)	C) Result demonstration									
	(D)	None of the above									
	(E)	Answer not known									
101.	Majo	or Government economic policy	for	poverty alleviation is							
	(A)	Public Demand System	(B)	Public Distribution System							
	(C)	Public Distress System	(D)	Public Distribution Supply							
	(E)	Answer not known									
102.	The long term guarantee to the farmers in the event of production glut provided by Government of India is										
	(A)	Direct Procurement	(B)	Minimum Support Price							
	(C)	Parallel Procurement	(D)	Providing Production Subsidies							
	(E)	Answer not known									

103.		prices at which the procur	emer	nt operation is carried out are
	(A)	Procurement prices	(B)	Minimum support prices
	(C)	Issue prices	(D)	Open market prices
	(E)	Answer not known		
104.	The Indi	_	ettin	g up of seed processing plants in
	(A)/	Tarai Development Corporati	on L	imited
	(B)	Food Corporation of India		
	(C)	State Seed Corporation		
	(D)	National Seed Corporation		
	(E)	Answer not known		
105.	Food	d grain production in India dur	ing 2	2006–07
	(A)	209.30 mt.	(B)	50.87 mt.
	(C)	82.02 mt.	(D)	108.42 mt.
	(E)	Answer not known		
106.		re of Agricultural sector in To ng 2013–14 at 1999–00 prices.	otal (Gross Domestic Product in India
	(A)	13.9%	(B)	15.7%
	(C)	9.0%	(D)	17.8%
	(E)	Answer not known		
107.	Amo	ong the foodgrains the largest i		ease in area has been recorded by
	(A)	Rice	(B)	Wheat
	(C)	Bajra	(D)	Maize
	(E)	Answer not known		
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108.	Under Tenth Five Year Plan, the Govt. of India had set a target to increase the country's forest cover in plain upto							
	(A)	5%	(B)	10%	, D			
	(C)	20%	(A)	2 5%	, 5			
	(E)	Answer not known						
109.		method of intercropping in wh ure crop is known as	ich t	he yi	ield c	of select	ted crops is e	equal
	(A)	Companion cropping	(B)	Mul	ltisto	ried cro	opping	
	(C)	Relay cropping	(D)	Par	allel	croppin	ng	
	(E)	Answer not known						
110.	"Eve	erything else may wait but not	Agri	cultu	re" v	vhose w	vords are the	ese?
	(A)	Mahatma Gandhiji	(B)	Pan	dit J	awahai	rlal Nehru	
	(C)	Dr. M.S. Swaminathan	(D)	Dr.	A.P.	J. Abdu	l Kalam	
	(E)	Answer not known						
111.		Mohan Singh Mehta Co blishment of	mmi	ttee	in	1973	suggested	the
	(A)	Farm Science Centre	(B)	Dip	loma	in Agr	iculture	
	(C)	Niche Areas Excellence	(D)	Cen	tral A	Agricul	tural Unive	sity
	(E)	Answer not known						
112.		accreditation to Board was est sustain the quality of higher a					_	orove
	(A)	1966	(B)	197	6			
	(C)	1986	(B)	199	6			
	(E)	Answer not known						

113.		is the <u>ex-officio</u> Presid	dent	of the ICAR society.				
	(A)	Central Minister of Agriculture						
	(B)	Union Minister of Agriculture						
	(C)	Prime Minister of India						
	(D)	The President of India						
	(E)	Answer not known						
114.	Mak	ting Indian Agriculture globally	y con	npetitive needs to use				
	(A)	Biotechnology	(B)	Nanotechnology				
	(C)	Space Science	(D)	Above all				
	(E)	Answer not known						
115.	The total market value of all final goods and services produced in a year in a country is called as							
	(A)	Gross Domestic Product						
	(R)	Gross National Product						
	(C)	(C) National Income at Market Price						
	(D)	(D) National Income at Factor Cost						
	(E)	Answer not known						
116.		first State Agricultural Univ blished at	ersit	y (SAU) in India (in 1960) was				
	(A)	Bangalore	(B)	Coimbatore				
	(C)	Pantnagar	(D)	Pusa				
	(E)	Answer not known						

- 117. NABARD is expanded as indicated below:
 - (A) National Bank for Agriculture and Rural Development
 - (B) National Board of Agriculture Research and Development
 - (C) National Bureau of Agriculture and Rural Development
 - (D) National Bank for Agricultural Reconstruction and Development
 - (E) Answer not known
- 118. Green Revolution in India was made by the following two "miracle seeds"
 - (A) Wheat and Maize

(B) Rice and Wheat

- (C) Wheat and Mustard
- (D) Rice and Maize
- (E) Answer not known
- 119. Amongst the different States of India, the largest gross irrigated area lies in
 - (A) Maharashtra
 - (B) Uttar Pradesh including Uttaranchal
 - (C) Madhya Pradesh including Chattisgarh
 - (D) Tamil Nadu
 - (E) Answer not known
- 120. The broad objective of Rashtriya Krishi Vikash Yojana is
 - (A) To provide incentive to the states to increase public investment
 - (B) To enhance production through area expansion
 - (C) To impact basic and strategic research
 - (D) To establish research constitute for livelihood improvement
 - (E) Answer not known

- 121. Pre-sowing seed treatment to induce drought tolerance is called
 - (A) Seed priming

(B) Seed coating

(C) Seed tolerance

(D) Seed hardening

- (E) Answer not known
- 122. Tillage of wetland soils for transplanted paddy crop is referred to as
 - (A) Ploughing

(B) Hoeing

(C) Harrowing

(D) Puddling

- (E) Answer not known
- 123. The atmospheric air contains ————— % N.
 - (A) 38%

(B) 48%

(C) 58%

(D) 78%

- (E) Answer not known
- 124. The force caused by rotation of earth changes the direction, but not the speed of the wind
 - (A) Gravitational force

(B) Frictional force

(C) Coriolis force

- (D) Tropospheric wind
- (E) Answer not known
- 125. To get °F (Fahrenheit) from °C (Celsius) the conversion scale is

$$(\mathbf{A} \mathbf{f} \circ F = C \times \frac{9}{5} + 32$$

(B)
$${}^{\circ}F = C \times \frac{5}{9} + 32$$

(C)
$${}^{\circ}F = C \times \frac{9}{5} - 32$$

(D)
$${}^{\circ}F = C \times \frac{9}{5} + 12$$

(E) Answer not known

126.	Che	mical used for artificial rain m	akin	g is			
	(A)	Silver iodide	(B)	Nitrous oxide			
	(C)	Potassium chloride	(D)	Arsenic acid			
	(E)	Answer not known					
127.		ch gas is highly responsible for	the	green house effect?			
	(A)	Carbon-di-oxide	(B)	Methane			
	(C)	Nitrous oxide	(D)	Chlorofluoro carbons			
	(E)	Answer not known					
128.	The	seed rate for transplanted Cur					
	(A)	5	(B)	3.75			
	(C)	10	(D)	5.75			
	(E)	Answer not known					
129.	The nursery area required to raise 1 ha of ragi seedlings is —————cents.						
	(A)	12.5	(B)	10.0			
	(C)	7.5	(D)	5.0			
	(E)	Answer not known					
130.	The	quantity of seed required fo kg/ha.	r irr	rigated transplanted sorghum is			
	(A)	10	(B)	7.5			
	(C)	5.0	(D)	12.0			
	(E)	Answer not known					
	• •						

131.		pacing of ————— is aic (bud necrosis) is prevale		nended wherever groundnut ring amilnadu.			
	(A)	$30 \text{ cm} \times 10 \text{ cm}$	(B)	15 cm × 15 cm			
	(C)	$20 \text{ cm} \times 10 \text{ cm}$	(D)) 25 cm × 25 cm			
	(E)	Answer not known					
132.		recommended seed rate for kg/ha.	Bengal	l gram Co4 variety in Tamil Nadu			
	(A)	90	(B)	75			
	(C)	95	(D)) 50			
	(E)	Answer not known					
133.	Quantity of bacterial biofertilizer recommended for seed treatment and to be sown in an area of 1 ha is						
	(A)	400 grams	(By	600 grams			
	(C)	800 grams	(D)	1000 grams			
	(E)	Answer not known					
134.	Seed	d hardening chemical used f	or bajra	a to induce drought tolerance is			
	(A)	$ ho$ KH $_2$ PO $_4$	(B)	NaCl			
	(C)	H_2SO_4	(D)	CCC			
	(E)	Answer not known					
135.	The	recommended pre-emergene	ce herbi	icide for wheat in Tamilnadu is			
	(A)	Isoproturan @ 500 g/ha					
	(B)	Atrazine @ 1 kg/ha					
	(C)	Imazethapyr @ 0.5 kg/ha					
	(D)	Butachlor @ 2 kg/ha					
	(E)	Answer not known					
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136.	to monitor the depth of ponded water on the field, ————————————————————————————————————				is used		
	(A)	Field water tube	(B)	Tensio meter			
	(C)	Lysimeter	(D)	Porometer			
	(E)	Answer not known					
137.		is a perennial type ca	stor.				
	(A)	TMV5	(B)	TMV6			
	(G)	CO-1	(D)	TMV3			
	(E)	Answer not known					
138.	8. The variety of cotton with only sympodial branches suited for density planting is						
	(A)	DCH-32	(B)	SVPR-6			
	(C)	CO-17	(D)	CO-14			
	(E)	Answer not known					
139.	The	sowing season for long duration	n red	l gram varieties is			
	(A)	II fortnight of July and I fortn	ight	of August			
	(B)	I fortnight of December and II	fort	night of March			
	(C)	(C) II fortnight of April and I fortnight of June					
	(D)	D) II fortnight of July and II fortnight of December					
	(E)	Answer not known					
140.		ine in production of individua	al cr	ops in drought years wa	is more		
	(A)	Rice	(B)	Wheat			
	(C)	Coarse grains	(B)	Pulses			
	(E)	Answer not known					

141. The formula proposed for calculating RSC is

(A)
$$(CO_3^{2-} + HCO_3^-) - (Ca^{2+} + Mg^{2+} + Na^+ + K^+)$$

(B)
$$(CO_3^{2-} + HCO_3^-) - (Ca^{2+} + Mg^{2+} + Na^+)$$

$$(G)$$
 $(CO_3^{2-} + HCO_3) - (Ca^{2+} + Mg^{2+})$

(D)
$$(CO_3^{2-} + HCO_3^{-}) - \left(\frac{C\alpha^{2-} + Mg^{2-}}{2}\right)$$

- (E) Answer not known
- 142. The prescribed level of Flourine in irrigation water is
 - (**A**) < 1.0 ppm

(B) 2.0 ppm

(C) < 2.0 ppm

- (D) None of the above
- (E) Answer not known
- 143. CAZRI refers to
 - (A) Central Agricultural Zonal Research Intitute
 - (B) Central Arid Zone Research Institute
 - (C) Central Automatic Zone for Research and Implementation
 - (D) Chennai Agro climatic Zonal Research Index
 - (E) Answer not known
- 144. The leaching loss of Nitrogen is more in the form of
 - (A) Ammonia gas

(B) Nitrate

(C) Nitrogen

- (D) Water solution
- (E) Answer not known

145.	Who	among the below is known as	fath	er of soil science?
	(A)	Jenny	(B)	Marbut
	(C)	Dokuchaev	(D)	Glinka
	(E)	Answer not known		
146.	Whi	ch clay mineral contains highe	st po	tassium?
	(A)	Montmorillonite	(B)	Vermiculite
	(C)	I llite	(D)	Kaolinite
	(E)	Answer not known		
147.	_	gation water having the SAR v nsuitable for Agriculture.	alue	e of ———— is considered to
	(A)	< 10	(B)	10-15
	(C)	20-25	(D)	> 26
	(E)	Answer not known		
148.	Amo	ong the following crops, which i	s hig	hly salt tolerant?
	(A)	Beans	(B)	Cotton
	(C)	Chick pea	(D)	Onion
	(E)	Answer not known		
149.	Nuti	rient mobility concept was give	n by	
	(A)	Bray	(B)	Cate and Nelson
	(C)	Lorsen	(D)	Mitscherlich
	(E)	Answer not known		

150.		many land irrigability ained use of irrigation?	classes	are	recognized	based	on	the
	(A)	6	(B)	8				
	(C)	7	(D)	5				
	(E)	Answer not known						
151.	To n	nap soils on 1:50,000 scale	e, the re	esolut	ion of remo	te sensi	ing	data
	(A)	Coarse resolution	(B)	Med	ium resoluti	on		
	(C)	Fine resolution	(D)	None	e of these			
	(E)	Answer not known						
152.	A co	mmonly used chemical ame	ndment	for re	eclaiming so	dic soil	is	
	(A)	Lime	(B)	SSP				
	(C)	Gypsum	(D)	Sulp	huric acid			
	(E)	Answer not known						
153.	Whic	ch of the following forms of	nitrogen	are a	available to	plants?		
	(A)	Nitrate, Ammonium	(B)	Amii	ne, Amide			
	(C)	N_2 , NH_3	(D)	NO,	N_2O			
	(E)	Answer not known						
154.	Sub	soil contains high amount o	\mathbf{of}					
	(A)	Cation exchange capacity	(B)	Biolo	gical activit	У		
	(C)	Organic matter content	(D)		e of these	-		
	(E)	Answer not known	, ,					

155.		Chloride concentration of -			meq.l-1	in	water	is	not		
		able for irrigation purpose.									
	(A)	< 4	(B)	> 20							
	(C)	4-7	(D)	8-12							
	(E)	Answer not known									
156.	Orga	anic matter content of organic	soil i	s							
	(A)	> 20%	(B)	< 20%							
	(C)	5%	(D)	1%							
	(E)	Answer not known	` '								
157.	For sustaining good physical conditions of the soils										
	(A) water stable aggregates are necessary										
	(B) dispersion of clay particles are necessary										
	(C) rainfall and irrigation are necessary										
		tillage is necessary	, coba.	- 3							
		-									
	(E)	Answer not known									
158.	The	equation for soil forming factor	rs wa	ıs formu	lated by	,					
	(A)	Joffe and Marbut	(B)	Hillgar	[.] d						
	(C)	Hans Jenny	(D)	Dokuch	naev						
	(E)	Answer not known									
159.	More	e than 50% loss in productivi	ty of	black s	soils occi	urs	at an	ESI	? of		
	(A)	5-15	(B)	15-40							
		> 40	(D)	5-10							
	(E)	Answer not known	,								

160.	Dist	ance between field observation	in d	etailed soil survey is
	(A)	10 km	(B)	2.5 km
	(G)	50-100 m	(D)	500 m
	(E)	Answer not known		
161.	A pl	ough which is useful for break	ing t	the hard pan of the soil is known
	as	•		
	(A)	Chisel plough	(B)	Rotary plough
	(C)	Mulch plough	(D)	Disc plough
	(E)	Answer not known		
162.	Scie	ntific name for Eri silk worm is	3	
	(A)	Bombyx mori	(B)	Philosamia ricini
	(C)	Antheraea mylitta	(D)	Antheraea assami
	(E)	Answer not known		
163.	The	secretion from mandibular gla	nd of	the queen is called
	(A)	Queen substances	(B)	Royal Jelly
	(C)	Bee bread	(D)	Apitoxin
	(E)	Answer not known		
164.				of ——— is recommended
	for h	iigher grain yield in maize crop	•	
	. ,	0.4 to 0.6	(B)	0.6 to 0.8
	(C)	0.8 to 1.0	(D)	1.0 to 1.2
	(E)	Answer not known		

- 165. Which type of pumps are most commonly used in sprinkle and trickle irrigation systems?
 (A) Centrifugal pumps
 (B) Turbine pumps
 (C) Propeller and mixed flow pumps
 - (D) Both (A) and (B)
 (E) Answer not known
- 166. method of irrigation is suitable for fruit crops.
 - (A) Check basin(B) Basin(C) Border strip(D) Furrow(E) Answer not known
- 167. Among the following elements, which is not a translocation regulator in plants?
 - (A) Nitrogen (N) (B) Potassium (K) (C) Sodium (Na) (D) Calcium (Ca)
 - (E) Answer not known
- 168. Nitrogen content present in concentrated organic manure of fish meal is
 - (A) 0.5 1% (B) 4 10% (C) 13 15% (D) 20 25%
 - (E) Answer not known

169.	Which of the following earthworm species are commonly used in vermi composting?							
		(A) Lampito mauvitii and Lumpricus terrestris						
		Eisenia fetida and Eudrelis et						
	(C)	Lampito mauvitii and Periony	_					
	(D)	Eisenia fetida and Perionyx e						
	(E)	Answer not known						
170.	Tric	hoderma sp is a phosphorous s	olub	ilising organism related to				
	(A)	Bacteria	(B)	Fungi				
	(C)	Yeast	(D)	Actinomycetes				
	(E)	Answer not known						
171.	Site Specific Nutrient Management (SSNM) technique was launched at							
	(A)	IARI	(B)	CRRI				
	(6)	IRRI	(D)	CRIDA				
	(E)	Answer not known						
172.	The correct particle size of carrier material lignite used in biofertilise production							
	(A)	500 – 400 mesh sieve	(B)	400 - 300 mesh sieve				
	(C)	300-200 mesh sieve	(B)	Less than 200 mesh sieve				
	(E)	Answer not known						
173.	Hete	erocyst is the cell site responsib	le fo	\mathbf{r}				
	(A)	Phosphate storage	(B)	Lipid storage				
	(C)	Zinc fixation	(B)	Nitrogen fixation				
	(E)	Answer not known	_					

174.	Whi	ch one of the following is a pho	spho	rus solubilising fungi?			
	(A)	Serraria	(B)	Erwinia			
	(C)	Aspergillus	(D)	Burkholderia			
	(E)	Answer not known					
175.		contain a consortium	of N	fixers, P solubilizers and PGPR.			
2.0.		Mixmin		Biomix			
	` '	Biomax	` '	Maxbio			
	` *	Answer not known	(-)				
 0							
176.		ch of the following statement plants through futiliza applica		rue about balanced nutrition of?			
	(A)	Continuous availability all ess	senti	al nutrients			
	(B) Increases the nutritional value of crops						
	(C)	Difficulty in achieving balar response of crops	nced	fertilization is due to varying			
	(D)	All the above					
	(E)	Answer not known					
177.	Which of the following nutrients is absorbed in both cationic and anionic forms?						
	(A)	Magnesium	(B)	Nitrogen			
	(C)	Potassium	(D)	Sulphur			
	(E)	Answer not known					
178.	Conversion of yield of different inter crops into equivalent yield of any one crop on economic returns is known as						
	(A)	CEY	(B)	LER			
	(C)	MCI	(D)	RYT			
	(E)	Answer not known					

179.		wing two or more crops simul a a definite row spacing is know		ously on the same piece of land
	(A)	Inter cropping	(B)	Mixed cropping
	(C)	Mono cropping	(D)	Multiple cropping
	(E)	Answer not known		
180.	Leng	gth of growing period for double	e cro	pping is dry land farming is
	(A)	> 180 days	(B)	120-180 days
	(C)	100-140 days	(D)	80-120 days
	(E)	Answer not known		
181.		ation of protection for extant er PPVFR Act (2001)	vari	eties and new varieties of crops
	(A)	20 years	(B)	10 years
	(C)	5 years	(D)	15 years
	(E)	Answer not known		
182.	Acce	essions being actively used in cr	op ii	mprovement programme
	(A)	wild collections	(B)	base collections
	(C)	active collections	(D)	working collections
	(E)	Answer not known		
183.	The in	protection of plant varieties ar	nd fa	rmer's rights act was established
	(A)	2005	(B)	2004
	(C)	2003	(D)	2001
	(E)	Answer not known		

184.	Whi	ch one of the following is an ex-	situ	germplasm conservation?
	(A)	Natural park	(B)	Biosphere reserve
	(C)	Gene Sanctuary	(D)	Seed Bank
	(E)	Answer not known		
185.		technique is used to r	ecov	er inter specific hybrids.
	(A)	Callus culture	(B)	Anther culture
	(C)	Embryo culture	(D)	Meristem culture
	(E)	Answer not known		
186.		cotton hybrids were approved ng the year	for	commercial cultivation in India
	(A)	2000	(B)	2002
	(C)	2004	(D)	2005
	(E)	Answer not known		
187.		extends the scope of d	lista	nt hybridization
	(A)	Anther culture	(B)	Somatic hybridization
	(C)	Micro propagation	(D)	Meristem culture
	(E)	Answer not known		
188.	Abil	_	er le	vel of hydration under moisture
	(A)	Drought escape	(B)	Dehydration avoidance
	(G)	Drought tolerance	(D)	Drought hardening
	(E)	Answer not known		

189.	Superior long fibre cotton should have a fibre length of							
	(A)	19 mm or above	(B) 22 mm or above					
	(C)	27 mm or more	(D) 24 mm or more					
	(E)	Answer not known	•					
190.	In v	wheat homoeologous pairingchromosome.	is suppressed by genes present in					
	(A)	5C	(R) 8A					
	(C)	5B	(D) 5D					
	(E)	Answer not known						
191.	It denotes the progeny of a line produced through random pollination by a number of lines selected							
	(A)	Back cross	Poly cross					
	(C)	Single cross	(D) Double cross					
	(E)	Answer not known						
192.	Which of the following is not a genetic emasculation technique?							
	(A)	Male sterility						
	(B)	Protogyny						
	(C)	Pistillate condition						
	(D)	Chemical hybridizing agents (CHAs)						
	(E)	Answer not known						

- 193. The first Pigeon Pea hybrid released by ICRISAT in India was based on
 - (A) Genic male sterility system
 - (B) Cytoplasmic geneic male sterility
 - (C) Hand emasculation and pollination
 - (D) Mutation breeding
 - (E) Answer not known
- 194. Which one of the following is incorrect?
 - (A) Minimum seed standards are less for breeder seeds than nucleus seeds
 - (B) Foundation seed stage II cannot be used to produce foundation seed
 - (C) Seed certification is compulsory
 - (D) Certified seed storage II cannot be used for further multiplication
 - (E) Answer not known
- 195. Which method of hybrid seed production is most widely followed in cotton?
 - (A) CGMS
 - (R) Hand emasculation and pollination
 - (C) CHS
 - (D) Use of CHAs
 - (E) Answer not known
- 196. Two genetically heterogenom testers are used in
 - (A) Simple recurrent selection
 - (B) Recurrent selection for gca
 - (C) Recurrent selection for sca
 - (D) Reciprocal recurrent selection
 - (E) Answer not known

197.	Indian grassland and Fodder Research Institute is located in					
	(A)	Indore	(B)	Nagpur		
	(C)	Junagarh		Jhansi		
	(E)	Answer not known				
198.	An individual carrying the gametic chromosome number 'n' is known as					
	(A)	Diploid	(R)	Haploid		
	(C)	Triploid	(D)	Aneuploid		
	(E)	Answer not known				
199.	A mutation which kills more than 50% of the individual which carry the mutation is called					
	(A)	lethal	(B)	sub lethal		
	(C)	vital	(D)	sub vital		
	(E)	Answer not known				
200.	The Central Institute of cotton research is head quartered at					
	(A)	Jabalpur	(B)	Kolapur		
	(C)	Trichur	(D)	Nagpur		
	(E)	Answer not known				