Sl. No.:

		 	35	
Register	7			
Number				

## 2018

## AGRICULTURE (Degree Standard)

Time Allowed: 3 Hours]

[Maximum Marks: 300]

FAAGR

Read the following instructions carefully before you begin to answer the questions.

## IMPORTANT INSTRUCTIONS

- 1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination it will not be replaced.
- 3. Answer all questions. All questions carry equal marks.
- 4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- 5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
- 6. You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. The sheet before the last page of the Question Booklet can be used for Rough Work.
- 11. Do not tick-mark or mark the answers in the Question Booklet.
- 12. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- 13. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

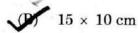


1.	'Hido	den hunger' means			
	(A)	Deficiency of soil nutrients and	deficiency s	ymptoms on plants	
Au a	W/	Deficiency of soil nutrients and	no deficienc	ey symptoms on plants	
y	(C)	Excess soil nutrients and deficie	ncy sympto	oms on plants	
	(D)	Adequate soil nutrients and defi	ciency sym	ptoms on plants	
2.	The s	seed rate recommended for sugarca	ane with tw	vo-budded setts in Tamilnadu is	
	(A)	10,000 per ha	(B)	25,000 per ha	
in a	(C)	50,000 per ha	S.	75,000 per ha	
3.	The l	herbicide recommended for aerobic	rice in Ta	milnadu is	
	(A)	Atrazine	B	Pendimethalin	
	(C)	Glyphosate	(D)	Paraquat	
4.	Mois	ture stress can be mitigated by red	lucing		,
	Je Je	Transpiration	(B)	Respiration	
	(C)	Photosynthesis	(D)	Evaporation	
5.	The l	IPCC (Intergovernmental Panel or	Climate C	hange) Secretariat is located at	
	(A)	France		Geneva	į,
	(C)	India	(D)	Finland	5
8.					
6.	EI N	ino is associated with			
	(A)	Deficit rain over pesu	. (DA	Deficit rain over India	rii Fi
	(C)	Excess rain over India	(D)	Deficit rain over Pacific ocean	5)
	(0)	Lancobo Latii Ovel Illala		2 officer rain over 1 delife occan	

	(A)	Blight disease	f. K			
	(B)	Ergot disease				
	S	Khaira disease				
	(D)	Smut disease				
						1,40
8.	Potat	to tuber is a modified form of	f			
	(A)	Root		W.	Stem	
	(C)	Flower		(D)	Leaf	
9.	Total	population of blackgram ero	op sown ad	lopting	g a spacing of 30 ×	10 cm will be
	(A)	1, 11, 111 plants ha <sup>-1</sup>				
	(B)	2, 22, 222 plants ha <sup>-1</sup>				
	S	3, 33, 333 plants ha <sup>-1</sup>				
	(D)	1, 48, 4818 plants ha <sup>-1</sup>				
						18/
10.	The n	nost suitable intercrop for su	ugarcane			
	S	Blackgram		(B)	Maize	
	(C)	Bajra		(D)	Redgram	
			51			
l 1.	Suita	ble intercrop for turmeric is				7 6
	S	Onion		(B)	Sesame	
	(C)	Chilli		(D)	Bhendi	

The zinc deficiency in paddy plant causes

- 12. The spacing adopted for short duration paddy in Tamilnadu is
  - (A)  $30 \times 30 \text{ cm}$



(C)  $20 \times 10 \text{ cm}$ 

(D)  $20 \times 20 \text{ cm}$ 

- 13. Desuckering is followed in
  - (A) Cotton

(B) Sorghum

(C) Maize

- Tobacco
- 14. One of the following is a narcotic crop



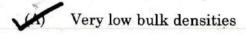
(B) Rice

(C) Blackgram

- (D) Ragi
- 15. Khaira disease in rice is caused due to the deficiency of
  - (A) Boron
  - (B) Molybdenum



- (D) Copper
- 16. Soils containing more pore spaces than that of solid per unit volume will have



- (B) Very high bulk densities
- (C) High bulk densities
- (D) Bulk densities equal to that of normal soil

17.	Whic	h of the following soil orders have high	n organ	nic matter?
	(A)	Andisol, Aridisol		
	(B)	Ultisol, Alfisol	*	
	10	Mollisol, Histosol		
	(D)	Spodosol, Entisol		
**				
18.	Whic	h of the following hard pan horizon is	cemen	ted by iron?
	(A)	Duripan	(B)	Fragipan
	(C)	Plinthite	(D)	Petrogypsic
	~			
19.	Who	t is the minimum requirement of air ca	anacity	for plant growth
19.	Wha	>20%	(B)	<10%
	(C)	<5%	(D)	<20%
	(0)	370	(L)	2070
				1.6
20.		ch of the following nutrient is essential		
	(A)	Nitrogen	(B)	Potassium
		Phosphorus	(D)	Chlorine
21.	. Whic	ch of the following crops are highly tole	erant to	o salinity?
	(A)	Peas, sesamum		
	(B)	Pulses, grams		
× ×	(C)	Linseed, sunflower		
	DY	Rice, sugarcane	8	
22.	In U	niversal Soil Loss Equation (USLE), w	hat do	es 'I' indicate?
	$\mathbf{E} = \mathbf{i}$	f(ICKLV)		100
	(A)	Wind erosion		
	D	Soil erodibility		
2	(C)	Vegetative cover		
	(D)	Surface roughness		

	VA	Haematite		(B)	Chlorite		
	(C)	Vermiculite		(D)	Illite		
	* 0						
24.	Orga	nic matter in surface se	oil = Organic	carbon x	?		
	A	1.724	w 10 i	(B)	1.247		
	(C)	1.427	ig the	(D)	1.540		Fa.
			- 2				
25.	Whic	h soil mineral that imp	art reddish l	orown colo	our to the soils	?	
	(A)	Gibbsite		(B)	Diaspare		
	10	Haematite		(D)	Maghemite		
26.	Resis	stance offered by the so	il to change i	n pH is		8	
	(A)	Exchange capacity					
	B	Buffering capacity					
	(C)	Conductivity				h H .	
	(D)	Redox potential					
****							
27.	What	t is the pollutant of soil	and water fr	om phosp	hatic fertilizer	industry?	
	(A)	Lead					
	B	Cadmium				-	
	(C)	Mercury	* 4 4				
	(D)	Chromium					
28.	In so	il, what form of N are le	ost through l	eaching?			
	VAY	Nitrate		(B)	Ammoniacal		
	(C)	Amide		(D)	Amine	ik sid	
				3		75	*

Which one of the following is grouped under non-silicate mineral?

23.

On an average, 10 tonnes of leguminous green manure per hectare will add 29. (B) 3-5 Kg of N35 Kg of N 50 Kg of N (D) 100 Kg of N (C) Intercropping with crops of different maturity periods could be done when the rainfall is 30. 625 - 750 mm500 - 625 mm(A) > 900 m (C) 750 - 900 mmThe number of crops grown per annum on a given area of land multiplied by 100 is called 31. Cropping Potential (A) Cropping Index Land Equivalent Ratio (C) (D) Yield Advantage Index The quantity of heat required to raise the temperature of one gram of the substance through 32. 1°C is Heat capacity (A) Specific heat (C) Volumetric specific heat (D) Thermal diffusivity For implementation of which of the following programme, DRDA was set up? 33. (A) NATP

(C) .

(D)

**IRDP** 

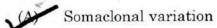
CDP

Lab to Land Programme

34.	The	expression of ends towards which our	efforts	are directed are
	(A)	Goals	W.	Objectives
	(C)	Aims	(D)	Targets
35.	In In	ndia, Central Sericulture Research Sta	tion loc	cated at
	(A)	Mysore	D	Berhampur
	(C)	Ranchi	(D)	Chennai
36.	A bee	e that visits same species of plant for p	ollen a	and nectar is referred as
	LA	Floral fidelity	il.	
	(B)	Royal fidelity		
	(C)	Both (A) and (B)		
	(D)	None of these		
				A GOLD TO THE R I
37.	The	Fecundity of queen bee in the colony is		
	(A)	3000 eggs per day		
	W.	upto 2000 eggs per day		
	(C)	2000 – 5000 eggs per day		
4	(D)	> 5000 eggs per day		
38.	The	yellow colour in soils due to the presen	ice of	
	. (4)	Goethite	(B)	Hematite
	(C)	Magnetite	(D)	Calcite
39.	In a	compound soil structure, peds are	elonga	ated more in vertical than in horizonta
		ction with angular top is		No. of the second second
	(A)	Blocky	JOHN TO	Prismatic
	(C)	Columnar	(D)	Platy

40.	First	interspecific cross between Carnation and sweet William species of Dianthus was made
	by	
	- Car	Thomas Fairchild (1717)
	(B)	Andrew Knight (1835)
	(C)	Vilmorin (1856)
	(D)	Koelreutur (1760)
	9	
41.	Thes	e are ideas which help an individual to discriminate whether a particular object or
	beha	viour is good or bad, desirable or undesirable
	(A)	Social control
	(B)	Social system
	W	Social value
1 2	(D)	None of the above
42.	The	over dominance hypothesis of heterosis was independently proposed by
	(A)	Davenport (1908)
	(B)	Bruce (1910)
	(C)	Keeble and Pellew (1910)
	NO.	East and Shull (1908)
		Bust and Shan (1990)
40	(TI)	
43.		selected plants are crossed to a tester with broad genetic base in
	(A)	Simple recurrent selection
	BY	Recurrent selection for general combining ability
	(C)	Recurrent selection for specific combining ability
	(D)	Reciprocal recurrent selection
44.		refers to the failure of viable pollen from a flower to fertilize the same flower
	(A)	Dichogamy (B) Heterostyly
	S	Self incompatibility (D) Male sterility
FAA	GR	10 β
	0,10	ρ

45. The genetic variability present among cultured cells and plants derived from such cells or progeny of such plants is called as



- (B) Genetic variation
- (C) Clonal variation
- (D) Phenotypic variation
- 46. Gene used for conferring resistance to BLB disease in rice is



(B) Pi 1

(C) Pita

- (D) rgh 1
- 47. The first intergeneric hybrid Triticale was produced by
  - (A) Karpechenko

Rionpau

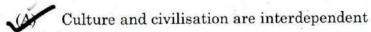
(C) Fairchild

- (D) Koelreuter
- 48. Latest rice hybrid released from Tamil Nadu
  - (A) CORH 3

CORH 4

(C) ADTRH 2

- (D) CO 52
- 49. Which of the following statements is true?



- (B) Culture and civilisation are not interactive
- (C) Culture and civilisation are poles apart
- (D) Culture and civilisation are not interdependent
- 50. The chromosome number of sesamum indicum is
  - (A) 2n = 32

2n = 26

(C) 2n = 64

(D) 2n = 52

51.	Whi	ch of the following communication sl	kills invol	lves speaking and writing
	VA	· Encoding	(B)	Decoding
	(C)	Feed back	(D)	Knowledge
<b>52</b> .	The	enzyme that amplifies DNA segmen	ts in PCF	technique
	(A)	Polynucleatide Kinase	B	Taq DNA polymerase
	(C)	DNA ligase	(D)	SI nuclease
* .				
53.	Whice surfa		l force to	mix and spread seeds over the dividing
	(A)	Boerner divider	(B)	Soil divider
	JOY	Gamet divider	(D)	Riffle divider
				The second secon
<b>54</b> .		equipment used to separate light we	ight mat	erial from the heavier seeds during purity
	(A)	Purity work board	BY	Seed blower
	(C)	Seed cleaner	(D)	Seed thresher
<b>55</b> .		s which, at the end of test period, lings, are classified as	are neith	er hard nor fresh and have not produced
	(A)	Hard seeds	B	Dead seeds
	(C)	Fresh and ungerminated seeds	(D) .	Dormant seeds
56.	Find	the odd one		
	(A)	Gravity separator	(B)	Spiral separator
	(C)	Disc separator	DY	Pre-conditioner
57.	The s	science which deals with production, narketing of seeds refers to	, harvest	ing, processing, testing, packaging storing
	(A)	Agriculture	(B)	Agronomy
	10	Seed Technology	(D)	Horticulture
			e 985 (50)	

58.	Wha	t is the maximum permissible r	number of OD	V for foundation	n seed cla	ss of maize?	
	W	5 / kg	(B)	10 / kg			
	(C)	15 / kg	(D)	20 / kg			
*							
59.	Ident	tify the genetic contaminant in	seed producti	on plot.	= *		+
	(A)	Weed plants					
	(B)	Other crop plants					
			dianana				
	(C)	Plants affected by designated	uiseases				
	The same	Off-types					*
			1 27		Ex. <sup>N</sup>		
60.	A firs	st generation hybrid between a	single cross a	nd an inbred li	ne is calle	d as	
	(A)	Double cross			49		
	D	Three-way cross				7	
	(C)	Double top cross				ela la la	f.a.
	(D)	Multiple cross					
61.	The S	Seed Multiplication Ratio for hy	brid paddy is		1 1		
3.3			Oria paday 10				
	(A)	1:80		1:100	4 5	C2**	
	(C)	1:200	(D)	1:400			
					9 T		
62.	In w	hich of the following Crop T	ime isolation	n is permitted	for seed	production	with
	modif	fication in isolation distance		4 X			
	(A)	Castor	(B)	Cumbu			
	CO	Maize	(D)	Sunflower			
			*.				
63.	Whic	h property of seed is used spira	l separator for	r upgradation?		* u	
	(A)	Size	к ж 31				
	(B)	Density					
	(0)	Ability to roll			200		
	(D)	Seed colour					*
	(D)	Seed Colour				5	

64.	Silve	ring of leaves in onion and gradual wilting is the symptom of attack at
	(A)	Aphids (B) White flies
	(C)	Mealy bugs Thrips
65.	Shot	hole symptom in grapevine is caused by
00.	(A)	Carabid beetle
	(B)	Coccinellid beetle
	(B)	Flea beetle
	(D)	Rove beetle
	(D)	nove beene
66.	Whic	h of the following are the anti-oomycete fungicides.
	(A)	Dinocap, Myclobutanil, Fenarimol
	B	Metalaxyl, Cymoxanil, Dimethomorph
	(C)	Carboxin, Lime Sulphur, Metiram
	(D)	Carpropamid, Tricyclazole, Pencycuron
67.	Syste	emic fungicides having melonin biosynthesis inhibition activity.
	(A)	Azoxystrobin, Carbendazion, edifenphos
	B	Tricyclazole, Pyroquelon, Carpropamid
	(C)	Propiconazole, Kitazin, Tricyclazole
	(D)	Carbendazion, Tricyclazole, Azoxystrobin
68.	In 9	4-D Blotter method, addition of -0.1 - 0.02% 2.4-D solution is to
00.	(A)	Enhance the seed germination
	(B)	Inhibit the growth of the pathogen
	(C)	Enhance the growth of the pathogen
- 1	(C)	Inhibit the germination of seeds
		immolt the germination of seeds
69.	Cucu	rbitaceious plants are sensitive to
	(A)	Myclobutanil Wettable sulphur
3	(C)	Karathane (D) Hexaconazole
T3 4 4	O.P.	

70.	Copp	per deficiency in soils leads to	
10	LAY	Exanthema in citrus	
	(B)	Mottle leaf in citrus	
	(C)	Folio collosin of citrus	
	(D)	Bronzing of citrus	
		8 T K B	
71.	Whic	ch of the following is not caused by	wall – less prokaryotes.
¥. n	W	Rice dwarf	
	(B)	Sunflower aster yellows	
	(C)	Sesame phyllody	
	(D)	Sugarcane grassy shoot	
72.	Pre h	narvest sanitation spray with ma	athion 50 EC 0.05%, three to five days before harvest
	is effe	ective for — in pulse	
	(A)	Pod bug	Pulse beetle
	(C)	Pulse pod borer	(D) Pod wasp
73.	Appli	ication of chopped paddy straw	treated with quinalphos 1.5 D 50kg/ha is effective
	again	nst — in rice field.	
	(A)	Rice Mite	(P) Termite
	(C)	Rat	(D) Army worm
74.	The v	vector for little leaf of brinjal is	
	W	Cestius phycitis .	
	(B)	Bemisia tabaci	
	(C)	Urentius hystricellus	
	(D)	Ferrisia virgata	

<b>75.</b>		line which represent the points of tity of other input is called as	maximu	m output from each input, given a fixed.
	(A)	Expansion path	(B)	Iso quant
	(C)	Iso – cost line	D	Ridge line
			į	
76.	Whic	h of the following is correct		
	(A)	MC curve is a continuous falling cu	rve	
	(B)	AVC curve lies above ATC curve		
	W	When MC curve is below ATC curve	e, ATC i	s falling
	(D)	When MC curve is above ATC curve	e, ATC i	s falling
77.	The f	ollowing is not included under 5 c's o	f credit	
	(A)	Character	(B)	Common sense
	10	Creative	(D)	Capacity
78.	Loan	s advance to a fertilizer manufacturi	ng comp	anies are called
10.	(A)	Open loan	(B)	Key loan
		Direct loan	(D)	Indirect loan
	(C)	Direct loan		marrect toan
79.	Two	tier system in co-operative credit str	ucture p	
	(A)	Short term loans	(D)	Long term loans
	(C)	Medium term loans	(D)	Crop loans
			(#) 2	
80.		alate the percentage of margin of sa als and output at break even point is	200	the total output produced by a firm is 40 uintals.
	(A)	42.67%	(B)	42.76%
	(C)	42.0%	JOHN ST	42.96%
			+	
81.	Which	h method of depreciation is used to e	estimate	the value of livestock in its early years of
	· (A)	Annual revaluation	(B)	Straight line
	(C)	Diminishing balance	(D)	Reducing fraction
	(0)		(2)	

16

**FAAGR** 

82.	Cost	minimization is the goal of	
O <b>2</b> .	منيد) .	Factor – Factor relationship	
	(B)	Factor – product relationship	
) 2 // X	(C)	Input – output relationship	
	7.9	Product – product relationship	
	(D)	Product – product relationship	
83.	Whic	ch of the statement is correct with reference to value addition.	
	(1)	There are three possible levels of value addition	
	(2)	Only level 3 is practiced in our country	
5. Ox	(3)	Level 1 is concern with high equal processing	
	(4)	Level 2 is secondary processing	
	(A)	1 only	
	(C)	3 and 4 only (D) 2, 3, 4 only	
84.	Whic	ch of the statement is correct with reference to demand creation.	
	(1)	Sub function of selling (2) Done by advertise	ment
	(3)	Not by display (4) By Trade fairs	
	(A)	1 and 2 only	
	(B)	2 only	
٠.	10	1, 2, and 4 only	
	(D)	3 and 4 only	
85.	Choo	ose correct statements with reference to market out look	
00.	(1)	Gives market situation in the near future	
	(2)	Gives the past price data	
	00,000		٠.,
E .	(3)	TNAU provides market out look information to farmers	
	(4)	Helps farmers is resource allocation	
	(A)	2 only (B) 1, 2 only	

(C)

1, 2, 4 only

1, 3, 4 only

86.	Buyi	ng and selling function creates ——		- utility.
	(A)	Form	(B)	Place
4.	LO	Possession	(D)	Time
87.	AGN	IARK seal is compulsory for		
	(A)	Food grains	(B)	Imports
2.5	C	Exports	(D)	Edible oil
88.	Tea l	board came into existence in the yea	ır	
	(A)	1963	(B)	1973
	(C)	1983	CONT.	1953
	4			
89.	The	World Trade organization is located	at.	
	14	Geneva		
-	(B)	New york		100
	(C)	Washington		
	(D)	Uruguay		4
1				
90.	HAC	CP stands for	5.	
	(A)	Health and Consumer Care Progr	amme	
	(B)	Hazard and Critical Control Point		
٠	VE	Hazard Analysis and Critical Con	trol Point	
	(D)	Health and Critical Care Plan		
91.	The	main objective of hedging is		
	(A)	Maximization of profit		
	(A)			
	(B)	Minimization of price risk		
	(C)	Reduction in transaction cost		
	(D)	Reducing marketing cost		
	\_/			

92.	These	e charts are particularly use	eful in showing trends	and relation	ships.	
	(A)	Bar charts				
E	(B)	Pie charts				
٠,	S	Line charts				
	(D)	Tabular charts			San .	
	8 10					
93.	The 'S	S-M-C-R-E model of comm	nunication' is given by			F
	(A)	Berlo	N N			
	(B)	Laswell				
	(0)	Rogers and Shoemaker				
	· (D)	Leagans				
	(-)					
	T. 0			on making s	bility of a huma	n expert
94.	It ref	ers to a computer system th	iat emulates the decisi	on making a	ibility of a fruits	m expert.
	ميشك	Expert system	18 k 16	*		
	(B)	Mobile App				
. 5	(C)	IMCD				
	(D)	Kisan calls				
95.	An ex	xpert system called 'Rice-cr	op Doctor' has been de	eveloped by v	which institute?	
	·	MANAGE				
	(B)	IARI	11 180 9 51		a JH -	198)
	(C)	IRRI				
	(D)	CRRI				
	(12)					
				d thuanah a	ortain channals	over time
96.		process by which an innov		a through c	ertam chamieis	over time
	amor	ng the members of a social s	system is referred as			*
	(A)	Adoption		4		
	(B)	Dissemination				
	W	Diffusion				
	(D)	Transmission				
		va s		(GI)		
		9				TAACD

97.		6-17 is	n India ti	ne per capita availability increas	e during
-	(A)	101 gm/person/day	(D)	201 gm/person/day	, Ear
	(C)	301 gm/person/day	(D)	51 gm/person/day	
00	m				
98.	The	'Kara Suraksha' insurance scheme p	provides in	nsurance coverage to	
	(A)	Maize	(D)	Coconut	
	(C)	Minor millets	(D)	Jack	
99.	The	major irrigated area in Tamilnadu is	s located i	n	
100	(A)	Cuddalore Dt	(B)	Nilgiris Dt	
	S	Thanjavur Dt	(D)	Kanyakumari Dt	
8					
100.	The	headquarters of Central Soil and W	ater Con	servation Research Institute (CSV	VCRI) is
		ed at			,
* *	(4)	Dehradun	(B)	New Delhi	
	(C)	Hyderabad	(D)	Jaipur	
	(0)	11) dorasau	(D)	Salpur	
101.	In In	dia, PMKSY scheme is implemented	l for		
	S	Providing improved access to irriga	ation		
	(B)	To support organic farming	X ,		
	(C)	To provide marketing support	3.7		
	(D)	To improve the financial status			*
102.	In In	dia, agriculture contributes to the co	untry's o	oss value added product of	
	(1)				
		17%	(B)	9%	
	(C)	21%	(D)	4%	

103.	Grow	ing two or more crops in sequence or	the san	ne field in a year is termed as
	(A)	Multiple cropping		
	(B)	Mixed cropping		
		Sequential cropping	4.5	
	(D)	Inter cropping		
104.	South	West Monsoon period is		
	w	June to September		
	(B)	June to December		
	(C)	October to December	100	
	(D)	January to March	281	
		A S		
105	m)	1		inclored as and time is reformed as
105.	The p	hysical condition of the atmosphere	at a part	
	(A)	Climate	D	Weather
	(C)	Meteorology	(D)	Climatology
106.	Cole	crops are		
	(4)	Cash mans	(B)	Ratoon crops
5	(A)	Cash crops Cold weather crops	(D)	Cover crops
•		Cold weather crops	(D)	Cover crops
107.	Evapo	otranspiration (ET) can be measured	by	
	(A)	USWB open pan evaporimeter	0	Lysimeter
	(C)	Sunshine recorder	(D)	Rain gauge
	2			
108.	Thora	conomic part of sugar beet is		
100.	Thee	conomic part of sugar beet is		
	(A)	Stem	(B)	Leaves
,	500	Tap root	(D)	Lateral root
109.	'Arroy	w' refers to inflorescence of		
			/D)	Tobacco
	(A)	Maize	(B)	Sugarcane
	(C)	Sorghum		Bugarcane

110.	Cast	or is grown as mixed crop with
	(A)	Wheat (B) Sugarcane
	S	Groundnut (D) Sunflower
111.	PAR	is referring to
	(A)	Photo Active Region
	(B)	Phyto Active Region
	(C)	Phyto Arid Region
	N/	Photosynthetically Active Radiation
112.	The e	early shedding of buds in cotton can be prevented by spraying
	(A)	Urea
8	(B)	DAP
	5	NAA (Naphthalene Acetic Acid)
	(D)	Potash
113.	CRIL	OA refers to
	(A)	Central Rainfed Institute for Dryland Agriculture
	(B)	Chennai Regional Institute for Disaster Agency
	S	Central Research Institute for Dryland Agriculture
	(D)	Central Region Institute for Dryland Agriculture
N.		
114.	LRF	refers to
	(A)	Longitudinal Region Forecast
	W.	Long Range Forecast
	(C)	Little Regional Forecast
	(D)	Late Regional Forecast

115.	Alfiso	ols are otherwise called as		
	W	Red soils	(B)	Black soils
	(C)	Loam soils	(D)	Clayey soils
116.	The f	ertilizer scheduling must be based on		
(4)	(A)	Crop nutrient requirement	•	
	(B)	Climatic conditions		
	(C)	Soil test values		
	0	Soil test values and crop nutrient rec	quirem	ent
			Y 2	
117.	What	t is the bulk density of soil having a we	eight o	f 25g and a volume of 18 CC
1	W.	$1.388~\mathrm{g~cm^3}$	(B)	$1.242~\mathrm{g~cm^3}$
	(C) ·	$1.566~\mathrm{g~cm^3}$	(D)	$1.812~\mathrm{g~cm^3}$
118.	What	t level of nitrate nitrogen in water is co	onside	red hazardous to human health?
	W.	> 100 ppm	(B)	<10 ppm
	(C)	<1 ppm	(D)	<100 ppm
119.	What	t is the soil moisture tension at satura	tion?	
1	(Á)	0 bars	(B)	-15 bars
(#"	(C)	31 bars	(D)	10,000 bars
	(0)			
120.	What	t is the unit of soil bulk density?		
120.	Wila	Pick Terminal	(B)	$ds m^{-1}$
	(0)	Mg m <sup>-3</sup>	(D)	Mg Kg <sup>-1</sup>
	(C)	g Ng	(D)	mg ng
	****		:	ومناء النح سنا
121.		t is the per cent by volume of carbon-d	1-0X1de	
	(A)	0.03%	JOY .	0.3%
	(C)	0.01%	(D)	10%

144.	Ivain	e the form of potassium readily avai	lable to c	rops	
	W	Solution K	(B)	Mineral K	
	(C)	Non exchangeable K	(D)	Fixed K	
123.	Whic	h one of the following is a graphical	represen	tation of progress of	f crop growth?
	W	Crop logging			
	(B)	DRIS		i i nata	
	(C)	Nutrient index			
	(D)	Critical nutrient concentration			
	H:				
124.	The a	average annual rainfall of Dryland fa	rming a	reas are	
	(A)	> 750 mm	1 P	< 750 mm	
	(C)	< 1000 mm	(D)	> 1000 mm	
125.	What	is the N fixing bacteria associated v	vith legu	mes	4
	(A)	Thiobacillus	(D)	Rhizobium	
	(C)	Beijerinckia	(D)	Clostridium	
			\_/		
126.	Name	e the amendment used for reclamation	on of alks	ali soils	
	(A)	Limestone	on or arke	an sons	
	(B)	Sodium bicarbonate			
	(C)	Sodium oxalate	161		
* 1	(D)	Gypsum			
	•				
127.	Active	e soil forming factors would include			x as, east
121.	(A)	Parent material and topography			
10	P	Climate and organism		MIN.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(C)	Time and topography			
	(D)	Parent material and time			
		a de la materiar and time			

128.	Whic	h one of the following is a pest of hor	neybees?	
60	(A)	Uzifly		
	B	Varroa mite		
	(C)	Hoverfly		
	(D)	Tiger beetle		
	(-)			
129.	One o	of the following is not a green manur	e	
	(A)	Sun hemp	(B)	Cowpea
	(0)		(D)	Cluster bean
		Delonix regia	(D)	Cluster bean
130.	The s	solid portion of sewage is called		
	(A)	mud	(B)	sand
	C	sludge	(D)	waster
131.	Limin	ng refers to application of		
	(A)	NaCO <sub>3</sub>	B	CaCO <sub>3</sub>
	(C)	$\mathrm{KH_{2}PO_{4}}$	(D)	$NaCl_2$
132.	Crop	residues decompose quickly and rele	ease nutr	ients if their C.N ratio is
	(A)	100:1	0	20:1
	(C)	30:1	(D)	80:1
133.	Iron	availability in soil increases whom the	ne pH	
		decreases		
	(A)			
		increases		
	(C)	, remains neutral		
	(D)	none of the above		

134.	The is	radioisotope used in the measurement	of soil	water by Ga	amma Ray Att	enuation met	hoo
	(A)	Lithium	, (B)	Caesium		e e .	
	(C)	Beryllium	(D)	Neptunium	1		
135.	Sche	eduling of irrigation to crops are based	on				
	(A)	Soil-water regime	7				
	(B)	Meteorological parameters			2.0	1 . A	
	(C)	Plant indices					
	W.	All of these				- 1 19	
136.	The	components of wetland IFS are					
	A	Rice + Fish + Poultry			, n		
	(B)	Rice + Goats				7	
	(C)	Rice + Pig + Poultry					
	(D)	Rice + Fodder trees + Goats		1. 4			
137.	The v	water potential (bar) at hygroscopic coe	efficien	t is			
= 9	(A)	-15	(B)	1/10			
		1/	, , , , , , , , , , , , , , , , , , ,				e.
	(C)	//3	The same	-31			
					8 4		
138.	Expa	and PIA					
	(A)	Project Intensive Area Programme					
	P	Project Implementation Agency				26	
	(C)	Programme Initiative Agency					
	(D)	Programme Implementing Authority					
112					y 1		
13 <b>9</b> .	The g	green biomass obtainable is <u>Sesbania</u> <u>S</u>	pecios	<u>a</u> is	* * * * * * * * * * * * * * * * * * * *		
	(A)	0.3 t/hz	DY	15 t/hz			
	(C)	1 t/hz	(D)	0.5  t/hz			

- 140. The ratio of total volume of water occupied in the pore space to the total volume of soil
  - (A) Air filled porosity
  - (B) Mass wetness
  - Volume wetness
  - (D) Depth of water
- 141. The difference in the moisture content between upper and lower plastic limit is
  - (A) Plastic limit

(B) Liquid limit

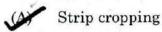
(C) Soil plasticity

- Plasticity index
- 142. The ratio of biomass per unit area to the water used by the crop
  - (A) Irrigation efficiency
  - (B) Application efficiency
  - (C) Conveyance efficiency
  - Water use efficiency
- 143. The optimum temperature range for root growth of the most of the crop plants
  - (A) 15 20°C

(B) 20 - 25°C

(C)  $25 - 30^{\circ}$ C

- (D) 30 35°C
- 144. The cropping system helps to control run-off and erosion is



- (B) Sole cropping
- (C) Sequential cropping
- (D) Crop rotation
- 145. Viral free plants are obtained through
  - (A) Anther culture
  - (B) Ovary culture
  - (C) Callus culture
  - Shoot tip culture

146.	1 - 2	is the central agency in India for the export and introduction of germplasm o
	econ	nomic importance
	(A)	IBPGR NBPGR
	(C)	BSI (D) NRRI
147.	Whi	ch of the following mating system is used is production and maintenance of inbreeds?
	(A)	Random mating
	B	Genetic assortative mating
	(C)	Genetic disassortative mating
	(D)	Phenotypic assortative mating
148.		is an application of mature pollen to immature non-receptive stigma prior to
	anth	
	(A)	Irradiation
	(B)	Double pollination
	VO	Bud pollination
	(D)	Pollination
149.	When	n pollen from a flower of one plant falls on to the stigmas of other flowers of the same
	plant	t, it is termed as
	(A)	Eleistogamy
	(B)	Chasmogamy
	VO	Geitinogamy
	(D)	Dichogamy
	ve .	
150.	An ex	cample for rice variety released through mutation
	مرس	Jagannath (B) CO 50
	(C)	TKM 13 (D) MDU 6
FAA	GR	28

151.	The n	nethod of hybrid seed production i	n sunflowe	er is	
	(A)	Hand emasculation and pollinati	on		
	(B)·	Use of CHAs	- a		
,	S	CGMS			
	(D)	GMS		M. A. C.	
9					
152.	Minin	num number of Border rows to be	planted in	$A \times B$ seed production plot of pearl mill	et
102.	is				
187	(A)	2	(B)	4	
	(C)	6	D	*8	
153.	Intern	national centre for Genetic Engine	ering and	Biotechnology is located in	
100.			(P)	Italy and India	
	(A)	Lithuania	(D)		
	(C)	Norway, India	(D)	Sweden	
154.	Stabil	lization selection accumulates alle	eles showin	ng ——— gene action.	*
	(A)	Dominance	(B)	Epistasis	(2)
	C	Additive	(D)	Co-dominance	
201		g g G A			
155.	Which	n of these male sterile cytoplasmic	sources a	re not related to rice	
	(A)	Wild abortive			
	(B)	Chinsurah boro II			
,	(C)	Oryza perennis			
	DÝ	Tifton			
156.	Whiel	h one of the following is not an ion	izing radia	ation	
	(A)	Thermal neutrons	(B)	$\alpha$ – rays	
-	(Č	LIV rosso	(D)	V vovo	

	(A)	20 (B) 35
1	(0)	(D) 10
1.0		
158.	On w	which sample the seed quality tests is made in the Seed Testing Laboratory?
	(A)	Primary sample
	(B)	Submitted sample
M.	VO	Working sample
	(D)	Composite sample
159.	The T	Tetrazolium test is a
200.	(A)	Cultivar identification test
	(B)	Seed viability test
	(C)	Seed Health test
	(D)	Seed moisture test
	(2)	Secu moistare test
100	(T)	
160.		science of evaluating the planting quality of seed before it is sown refers to
	(A)	Seed processing
	(B)	Seed packaging and handling
	سرس	Seed testing
	.(D)	Seed marketing
161.	The le	oss in seed weight when it is dried is termed as
	(A)	Seed vigour
	(B)	Seed viability
	(C)	Seed germination
	D	Seed moisture
	14	
162.	What	is the recommended row length for raising crop for conduct of grow out test in paddy?
	(A)	5 m
	(C)	8 m (D) 10 m
	N 158	
744	OD.	

157. The percentage of women beneficiaries covered under ATMA is

163.		r which section of Indian Seed lished?	ls Act 1966,	the State Seed Te	sting Laboratories are
	(A)	Sec. 2	(B)	Sec. 3	1. In section
	WY .	Sec. 4	(D)	Sec. 5	
164.		process of adding inert materia y is called as	als to change	e seed size and sha	pe for improved plant
	(A)	Halogenation	(B)	Seed priming	and the second
	(C)	Seed hardening	JOHN TON	Seed pelleting	
165.	What	is the maximum number of fari	mers under o	ne seed village?	
	(A)	50	(B)	100	
	S	150	(D)	200	
166.		seed rate and use of fish m	eal trap are	e the most importa	ant IPM tools for the
	(A)	Cotton weevil		(in)	
,	Jan Jan	Shoot fly in Sorghum			
	(C)	Sorghum stemborer			
	(D)	Root aphid in Ragi			
				e diam	
167.	Band	ing with grease or polythene she	eets on the tr	runk of the mango h	elps to prevent
	(A)	Stem borer	(B)	Maugo hoppers	
	(C)	Fruit flies	The supple	Mealy bugs	
168.		econut — pest is et antidis.	ffectively con	trolled by the larv	al parasitoid <u>Goniozus</u>
	(A)	Red palm weevil	*		
	D	Black headed caterpillar			
	(C)	Coconut slug caterpillar			
	(D)	Coconut eriophyid mite			and the same of th
		8 2 2 2 2 2			

169.	The entry of Bacterial Canker in tomato is through						
	(A)	Stomata	1	WY.	Trichomes		
	(C)	Neetarthodes		(D)	Hydathodes		
						nik la	
170.	"Litt	le leaf" disease in brin	ial is transmitte	d by			
	· (A)	Cestius phycitis		-			
	(B)	Orosius albicinctus				· V	
	(C)	Bemisia tabaci				× ·	
	(D)	Thrips tabaci					
171.	Whic	sh of the following enter			J:cc .:		
111.	*	th of the following ento	omopatnogenic n	emato	des is effective	against soil	d pests
	(A) (B)	Meloidogyne sp.					1,1
	100000	Trichodorus sp.	e 18	*			
	(C)	Aphelenchoides sp.	2 18				
		Heterorhabolitis sp.					
							N .
172.		icide application shou	ld be done by usi	ng	. 7		
	(A)	Hollow cone nozzle					
i.	(B)	Solid cone nozzle		=5.			
97	C	Deflector type nozzle		E.			
	(D)	Partially hollow cone	nozzle				
173.	Citru	s exocortis disease is o	caused by				
	(A)	Spcroplasma					
	(B)	Phytoplasma					
	VO	Viroid					
	(D)	Virus					
174.	In pot	tato, oxygen starvation	during storage	leads:	to incidence of		
	(A)	Brown rot	. waring boorage	(B)	Scab		
	(0)	Black heart		(D)	Ring rot		
				(D)	Iding 10t		

## Match the following 175. Performance of cooperatives (a) Cooperative societies (i) act 1912 Cooperation failed in India Sir Edward Maclagam (ii) (b) committee Rectified shortcoming in 1904 Act D.R. Gadgil committee (iii) (c) Inadequacy of credit (d) Gorwala committee (iv) (d) (a) (b) (c) (A) (ii) (iii) (iv) (i) (iii) (i) (ii) (iv) (i) (iii) (ii) (iv) (D) (iv) (ii) (i) (iii) Who is responsible to prepare district credit plan for the district? 176. Lead bank SBI (A) Cooperative bank (C) RBI Which statements are correct with respect to law of constant return 177. Termed as linear function (1)Each additional unit of input produces equal amount of output (2)Same slope in its entire range (3)(4)Predominantly used in agriculture 1, 2, 3 only 1 Only (A)

178. The following is not an advantage of diversified farming

- (A) Better utilization of farm resources
- (B) Reduced farm risks

1 and 4 only

·(C)

(C) Flow of income

Ineffective supervision

1, 3, 4 only

179	. Whi	ch scheme was introduced by gener	ral insura	nce corporation in the year	1985?
	(A)	Combined crop insurance schem	e		
	(B)	Combined cost and insurance sch	heme		
	W	Comprehensive crop insurance s	cheme		
1	(D)	Comprehensive cost and insuran	ce scheme	e	
× 7					
180		er which scheme the loans are being the possess tangible security?	ng extend	ed to the weaker sections o	f the society who
	(A)	Village adoption scheme			
	(B)	Lead bank scheme			
	(C)	Farm graduate scheme			
8	OF	Differential rate of interest scher	me		
181.	Lear	ning curve is the other name of wh	ich cost ci	urve?	
	(A)	Long run average variable cost co			
	B	Long run average cost curve			
	(C)	Short run average cost curve			
1	(D)	Short run average variable cost c	urve		
182.	In the	e classical production function stag	res which	stage is said to be wational	gono?
	w/	Second		First	zone:
1	(C)	Third	(D)	Fourth	
	(0)		(D)	routin	
100	m				
183.		type of ownership is individual a perative	nd that o	of operatorship is collective	e in the case of
	(A)	Tenant farming	(P)	Joint farming	
	(C)	Collective farming	(D)	Belter farming	
43	X-7		(12)	Delicer farming	
184.	If out	nut of one product can be incurred			C.1
104.		put of one product can be increased to then that enterprise is said to be		rough reduction in the out	put of the other
	(A)	Complementary enterprises	(B)	Supplementary enterprise	es
	VOY	Competitive enterprises	(D)	Joint products	
FAA	GR		34		В

					V
185.	Which Dr. I	ch commission was appointed M.S. Swaminathan to rejuventers?	l by the governate agriculture	nment of India under the and thereby improve t	he chairmanship of he lot of millions of
	1	National Commission on Fa	rmers		
	(B)	National Commission on ag	riculture		
	(C)	Indian Commission on Farm	ners		
	(D)	Indian Commission on agric	culture		
186.		Indian standards institution let from	has been renan	ned as the Bureau of Inc	lian standards with
	(A)	April 10, 1987	OF	April 1, 1987	
	(C)	April 1, 1989	(D)	April 12, 1988	
	(0)			•	
105			and only one h	war are present and it i	e known se
187.		arket in which only one seller	and only one b		s known as
	(A)	Monopoly		Bilateral monopoly	
	(C)	Monopsony	(D)	Duopoly	
188.	The for -	situation in which, the ma farmers.	rketed surplus	s is more than market	able surplus arises
	(A)	Only marginal		Small and marginal	
	(C)	Medium	(D)	Large	
	2		** *** *** *** *** *** *** *** *** ***		
189.	Sun	erior alternative to fair price s	shop system su	ggested by tenth five yea	ır plan is
100.	(A)	Food coupon scheme			18 H
	(B)	Subsidy entitlement card			
¥.	(C)	Food stamp system			
	. Or	Food card system	00-		
190.	year	culate rate of growth in dema r, rate of growth of per capita	nd when the raincome is three	ate of population growth ee per cent per year and	is two per cent per income elasticity of
		and is 0.8.			
	(A)	4.0 per cent/year	(B)		* * *
	Ver	4.4 per cent/year	(D)	3.2 per cent/year	
					TAACD

191.	Whic	h of the following attribute of innovation is inversely related to the rate of adoption?
	(A)	Compatibility
	LAST.	Complexity
	(C)	Observability
	(D)	Trialability
192.	The '	ength of time' required to pass through the entire innovation decision process is called
	(A)	Decision period
	B	Innovation –decision period
	(C)	Rate of adoption
	(D)	Innovation – decision planning
		· · · · · · · · · · · · · · · · · · ·
193.	Inten	aive Agricultural District Programme (IADD) was started in 1000 in the incident
100.	مخد،	July  (B) June
	(()	
	(C)	March (D) November
	9 1	
194.	In what launch	nich year, 'Development of Women and children in Rural Areas' (DWCRA) was ned?
	(A)	1978 (B) 1980
	C	1982 (D) 1984
95.		ral development programme aims to develop the capacity of taking decisions among
	(A)	Mahila Samridhi Yojana
	OF .	Indira Mahila Yojana
	(C)	Sampoorna Gramin Rozgar Yojana
	(D)	Swarna Jayanthi Gram Swarojgar Yojana

196.	Ceilin	ng price concept is to protect				
	(A)	Farmers		P		+ 3
	D	Consumers		1. 1. 1. 1		
	(C)	Market intermediaries				
	(D)	Public Agencies				
197.	CWC	was established in	-		# *	
2	(A)	1947	(B)	1950		*
	C	1957	(D)	1965		
198.	Pricir	ng efficiency is said to be achieve	d if product	is sold in two dif	ferent forms, w	hen,
	(A)	Price difference is less than tra	nsport cost		1 1 4 8	
	(B)	Price difference is less than sto	rage cost			
	سي	Price difference is less than pro	cessing cost			
	(D)	Price difference is more than pr	cocessing cos	st		
			*	*		
199.	This	means conversion of message in	the code for	orm into ordinar	y language whi	ch may be
	easily	y understood.	in .			
*	W	Decoding	(B)	Encoding		
	(C)	Treatment	(D)	Fidelity		
200.	'Cone	e of experience' was devised by				
	(A)	Kelsey and Hearne				
	Di	Edgar Dale	7 × 2			
	(C)	Seaman A. Knapp				
	(D)	Ensminger				
	40.350					
			200		1 1	