Sl. No.:

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Register Number				
LIMITOCI				

2012 AGRICULTURE (Degree Standard)

Time Allowed: 3 Hours 1

[Maximum Marks: 300

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

IMPORTANT INSTRUCTIONS

- This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open it
 at the commencement of the examination. As soon as the signal is received you should tear the right side
 of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
- 2. This Question Booklet contains 200 questions.
- 3. Answer all questions.
- 4. All questions carry equal marks.
- 5. 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 Ouestion Booklet.
- 6. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers. You must write your Name, Register No., Question Booklet Sl. No. and other particulars with Blue or Black ink Ball point pen on side 2 of the Answer Sheet provided, failing which your Answer Sheet will not be evaluated.
- You will also encode your Register Number, Subject Code, Question Booklet SI. No. etc. 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, your Answer Sheet will not be evaluated.
- 8. 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.
- 9. In the Answer Sheet there are four brackets [A] [B] [C] and [D] against each question. To answer the questions you are to mark with Ball point pen ONLY ONE bracket 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:

[A] [C] [D]

- 10. 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 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.
- 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.
- 12. Do not tick-mark or mark the answers in the Question booklet.
- 13. The last sheet of the Question Booklet can be used for Rough Work.

SEAL

Ι.	AA III	ch of the following is a monoeclor	is plant	£	
	(A)	Coconut	(B)	Maize	
	(C)	Castor	(D)	All of the above	
2.		suitability of a variety for gener	al culti	vation over a wide range of	environmental
	(A)	Comparability	(B)	Compatibility	
	(C)	Heritability	(D)	Stability	
2	177	10.00	-		
3.		d Pollination is called as	~	C7 1.13	
	(A)	Entanophily	(B)	Zoophily	
	(6)	Anemophily	(D)	Hydrophily	
4.	(A×	$(B) \times C$ is			
	(A)	Single cross	(B)	Double cross	
	(C)	Three way cross	(D)	Top cross	
		,	()		
5.		on is a		and the second section is a second se	
	(A)	<i>_</i> ^ ^	(B)	Cross pollinated crop	
	(C)	Often cross pollinated crop	(D)	Often self pollinated crop	
6.	Ran	jit is the name of the hybrid variety	of	,	
	(A)	Rice	(B)	Maize	
	(C)	Cotton	(D)	Sugarcane	
7.	-	ilised matured ovule is	(D)	.	
	(A)		(B)	Fruit	
	(6)	Seed	(D)	Seedling	
8.	indu	nethod of breeding most commonl sced in a vegetatively propagated c Polyploidy	•	when the desired variation is	required to be
	(B)	Pedigree method of breeding			
	(e)	Mutation breeding			
	(D)	Back cross method of breeding			
	(1)	Dack cross method of breeding			
9.		its produced from asexual methods	are		
	(A)	vigorous	(B)	true-to-type	
	(C)	susceptible to diseases	(D)	having long juvenile period	
10.	Gen	etic male sterility is controlled by			
_ • •	(A)	Single recessive gene (ms)			
	(B)	Multiple genes			
	(C)				
	(D)	None of the above			
	(1)	TIONE OF THE ADDITE			

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AGRD 2012

11.	When a F ₁ is crossed with the re	ecessive homo	rygotic parents, the cross is	known as
	(A) Back cross	(B)	Crossing over	
	(C) Test cross	(D)	All the above	
12.	The most effective method for the	he transfer of o	oligogenic character is	
	(A) Pedigree breeding	(B)	Bulk breeding	
	(C) Back cross breeding	(D)	Disruptive breeding	
13.	A collection of plasmid clones,	or phages lys	ates containing recombinant	DNA is known
	as		apl william a little	
	(A) Gene transfer	(B)	Genomic library	
	(C) Gene Cloning	(D)	None of the above	more The
3.21				and American
14.		multiply indefi	nitely in-vitro especially in	plant cell tissues
	is known as	(70)	6.11.6	
	(A) Cell line	(B)	Cell fusion	
	(C) Chemostat	(D)	Coagulation	
15.	Bt cotton tolerates		5490	
LJ.	(A) Beetles	(B)	Bugs	
	(C) Caterpillars	(D)	Flies	
	(e) Caterplinars	(D)	rnes	
16.	In which of the following crops,	transgenic va	rieties are most nonular ?	
10.	i. Brinjal	, dunsgeme væ	nedes die most popular :	
	ii. Cotton			
	iii. Groundnut			
	iv. Tomato			
	(A) i and ii of the above	(B)	ii and iii of the above	
	(C) ii and iv of the above	(D)	iii and iv of the above	
	(e) If and IV of the above	(D)	in and iv of the above	
17.	Biological fixation of nitrogen i	s helped by		
	(A) Zinc	(B)	Copper	
	(C) Boron	(D)	Molybdenum	
	(5) 201011	1		
18.	Which one of the following is a	C4 Plant?	,	
	(A) Sunflower	(B)	Maize	
	(C) Rice	(D)	Pulses	
	(3)	(-)		
19,	Seedlessness in grapes is due to			
	(A) Embryo abortion	(B)	Gibberellins	
	(C) Excess nitrogen	(D)	None of the above	900
		(- /		
20.	Edible banana is			
	(A) Diploid	(B)	Triploid	
	(C) Tetraploid	(D)	-	
ACI	RD 2012	4		TI.
47.0	AVAN AVAN	7		The State of the S

21.	source of	numa	an diet is primarily because they	are good
	(A) Vitamins	(B)	Proteins	
	(C) Vitamins and minerals	(D)	None of the above	
22.	Adjustment of individual to their enfunction is called as	vironm	nent by means of special struct	ures or of
	(A) Variation	(B)	Heredity	
	(C) Adaptation	(D)	Mutation	
23.	The amino acid associated with water st	ress		
	(A) Hydroxy Proline	(B)	Lysine	
	(C) Proline	(D)	None of the above	*.
24.	Plant growth regulator used for ripening	is		
	(A) Gibberellic acid	(B)	Cytokinine	
	(C) Butyric acid	DY	Ethylene	
25.	Whiptail in cauliflower is due to the def	icienc	v of	
	(A) Manganese	(B)	Magnesium	
	(C) Molybdenum	(D)	Sulphur	-
	ic, moryodonam	(2)		
26.	Poly unsaturated fatty acids are rich in			
	(A) Sunflower oil	(B)	Groundnut oil	
	(C) Coconut oil	(D)	Castor oil	
27.	National Seed Corporation of India was	establ	ished in the year	
	(A) 1961	(B)	1965	
	(C) 1962	(D)	1960	
28.	Any crop variety to be released in Tami	l Nadı	has to be approved by	
	(A) Department of Agriculture			
	(B) State Variety Release Committee			100
	(C) State Variety Release Corporation	1		
	(D) Tamil Nadu Agricultural Univers	ity		
29.	The process of breaking / softening the	seed c	oat is called	
	(A) Caprification	(B)	Clarification	
	(C) Scarification	(D)	Saponification	
-	, semineum sin	(-)		
30.	Certification is not required for			
	(A) Breeder Seed	(B)	Certified Seed	
	(C) Foundation Seed	(D)	Nucleus Seed	
31.	Gladiolus is propagated by			
	(A) Corms	(B)	Bulbs	
	(C) Suckers	(D)	Buddings	
		5	•	GRD 2012

32.	In breeding of cross pollinated	*			
	(A) Homozygosity (C) Both of the above	(B) (D)	Heterozygosity None of the above		
14.4		the street Prince	None of the above		
33.	Reflection of Solar radiation i				
	(A) Infrared radiation	(B)	Solar constant		
	(C) Albedo	(D)	Net radiation		
34.	Genetic tool in hybrid seed pr	roduction of red	gram is		
	(A) CGMS	(B)	GMS		
	(C) Mutation	(D)	PGMS		
35.	Tag colour for foundation see	eds is			
	(A) green	(B)	blue	and the last	
	(e) white	(D)	yellow	-	
			anatorio del persone		
36.	At which humidity percentage	e should the cere	al grains be stored?		
	(A) $5-6\%$		7 – 9%		
	(C) $10-15\%$	(D)	8 – 10 %		
37.	Conversion of organic form o		_		
	(A) Mineralization	(B)	Immobilization	******	
	(C) Fixation	(D)	Stabilization		
38.	ETL level for Diamond back	moth is	·	2	
	(A) 10 larvae / 10 plants	(B)	20 larvae / 10 plants		
	(C) 25 larvae / 10 plants	(D)	5 larvae / 10 plants		
39.	At harvest, Sugarcane contain	se maximum ame	unt of		
37.	(A) Maltose	(B)	Sucrose		
	(C) Glucose	(D)	Amylose		
	(C) Glucosc	(D)	Amylose		
40.	Papaya mealy bug can be con	trolled by			
	(A) Acerophagous papaye	(B)		scens	
	(C) Trichoderma viridi	(D)	Trigrogramma spp.		
41.	The grubs of coconut rhinoce	ros beetle are for	and in		
	(A) Fronds	(B)	Manure pits		
	(C) Soil	(D)	Stem		
				the state of	
42.	Biuret content in urea should	be less than			
	(A) 2	(B)	1.5		
	(C) 10	(D)	3		
43.	American bollworm can be co	ontrolled by			
	 Pheromone trap 	2.	Fish meal trap		
	3. NPV	4.	Yellow sticky trap		
	(A) 1 and 2 of the above	(B)	3 and 4 of the above		
	(e) 1 and 3 of the above	(D)	2 and 4 of the above		
ACI	RD 2012	6			a
		v			

44.	Match the key pest with the host using Key Pest (a) Case worm (b) Gall fly (c) Internode borer (d) Leaf minor Codes:	(1) (2) (3) (4)	Host Groundnut Rice	par temperature of
	(a) (b) (c) (d) (A) 2 3 1 4 (B) 3 2 4 1 (C) 2 3 4 1 (D) 3 1 2 4			
45.	White tip disease caused by nematode	is foun	d in	
	(A) Sorghum	(B)	Maize	
	(C) Rice	(D)	Pearlmillet	
46.	Leaf blotch of Turmeric is caused by (A) Carcospora sp. (C) Taphrina maculans	(B) (D)	Fusarium equiseti Phytophthora colocaseae	
47.	 'Wilt phase' is common in (A) Blast of Paddy (B) Bacterial blight of paddy (C) White rust of Crucifers (D) Red rot of sugarcane 	=		
48.	'Green ear' disease of Bajra is caused (A) Erysiphe graminis (C) Sclerosphora graminicola	(B) (D)	Albugo candiola Rhizopus oryzae	
49.	Sigatoka is the problem in			
• • • •	(A) lime	(B)	guava	
	(C) sapota	(D)	banana	
50.	An important disease infecting Chilli to (A) Anthracnose (C) Bud rot	fruits is (B) (D)	Blight Rust	
51	771			
51.	The major diseases of sorghum crop a (A) Grain mold (C) Downy mildew	re (B) (D)	Rust All the above	
52.	Pungency in Onion is due to		1	
	(A) Anthocyanins (C) Caffeine		Allyl di Sulphide Colchicine	
		7		AGRD 2012

53.	Bact	erial b	olight o	of rice	is car	used by	y				
	(A)	Xan	thomo	nas ca	jani						
	(B)	Xan	thomo	nas or	yzae						
L.	(C)		thomo		-	tris					
	(D)		e of th								
54.	Mate	ch the	follow	vino 11	sing f	he cod	ec ·				
J-4.	List		TOLLOV	vuig u	ang u	ic cou	List	n			
			is canl	ker			(1)	Virus			
	(b)		blight		tato		(2)	Algae			
	(c)		chy to					Bacteria			
	(d)		rust te		anana		(3)				10.7
	Cod		rust te	a			(4)	Fungi			
	Cou		(h)	(~)	(4)						
	1	(a)	(b)	(c)	(d)						
	(A)	3	4	1	2						
	(B)	4	1	3	2						15-
	(C)	1	2	4	3						
	(D)	2	3	1	4						
				0							
55.		-			izers	are ma	nufactured				
	(A)		il Nad					Karnataka			
	(C)	And	hra Pra	adesh			(D)	None of the ab	ove		
56	Ostr	. 1	المائمال								
56.	•	_	rlic is i	resista	int to		(DC)	CTT .			
	(A)	Aph					(B)	Thrips			
	(C)	Jassi	ıd				(D)	Mealy bug			
57.	The	maior	appro	aches	in pla	int dise	ease control	are			
	(A)	_	usion	acitos	in pie	are arse		Eradication			
	(C)		ection				(D)	All the above			
	(0)	1100	ccuon				100)	All die above			
58.	San .	Jose S	cale is	s an ex	campl	e of		/			
	(A)	Regi	ılar Pe	est	1		(B)	Exotic Pest			
	(C)	_	emic P				(D)	None of the ab	ove		
	(-)						(-)				
59.	Rice	varie	ty resi	stant t	o BPI	I is		an - 100 (- 101			
	(A)	ADT	*				(B)	ADT (R) 45			
	(C)	ADT					(D)	IR50			
					44						
60.			sts are		rolled	by	-				
	(A)		ninatio				(B)	Fumigation			
	(C)	Elim	inatio	n			(D)	Fertigation			
61.	The	most	commo	only 11	sed or	reanic	pesticide us	sed to control su	cking n	ests.	
	(A)		or Oil	-		3	(B)	Neem Oil			
	(C)		gam O				(D)	Mahua Oil			
A		F 70. 3									
AGI	RD 20	12					8				

62.	The	antagonistic fungus used in	crop disease	nanagement is	
	(A)	Sclerospora	(B)	Trichoderma	
	(C)	Trichogramma	(D)	Zygogramma	
63.	An I	nternal feeder of Legume s	eed is		
	(A)	Red flour beetle	(B)	Cigarette beetle	
	(e)	Pulse beetle	(D)	Khapra beetle	
64.	Shor	rtening in bhendi is due to t	he deficiency	of	
	(A)	Fe	(B)	В	
	(C)	N	(D)	P	
65.	Aph	ids are the vectors of		•	
	i.	Banana bunchy top		•	
	ii.	Brinjal little leaf			
	iii.	Cardamom mosaic			
	iv.	Cowpea mosaic			
	(A)	i, ii and iii of the above	(B)	i, ii and iv of the above	
	(0)	i, iii and iv of the above	(D)	All of the above	
66.	Rice	Tungro virus is transmitted	d by		
	(A)	Blue leaf hopper	(B)	Brown plant hopper	
	(C)	Green leaf hopper	(D)	White leaf hopper	
		**	1 hog		
67.		versal antidote is a mixture	of		
	(A)	Charcoal & Lime		HE THE	
	(B)	MgO & Charcoal			
	(C)	Activated Charcoal & tale			
	(D)	Activated Charcoal; tanni	c acid & MgO		
68.	Whi	ch one of the following is the	he vector of bh	endi vein clearing desease?	
	(A)	Aphid	(B)	Leafhopper	
	(C)	Mealy bug	(D)	Whitefly	
69.	Cen	tral Food Technology Resea	arch Institute (CFTRI) is located at	
	(A)	New Delhi	(B)	Bangalore	
	(C)	Mysore	(D)	Mumbai	
70.	State	ement (A): Synthetic pyret	hroids are effe	ctive against cotton bollworms	
				duce resurgence of white flies.	
	(A)	Statement (A) is true but		-	
	(B)	Statement (A) is false but	• •		
		Both Statements (A) and	•		
	(P)	Both statements (A) and (. ,		

71.	Hert		Maize + Blackgr	am intercropping system		
	(A)	Pendimethalin	(B)	Isoproturon		
	(C)	Atrazine	(D)	Butachlor		
72.	The	volume of spray fluid rec	uired under high	n volume spray is		
	(A)	200 - 300 lit/ac	(B)	300 - 400 lit/ac		
	(C)		(D)	500 - 600 lit/ac		
73.	Whi	ch of the following crops	is the maximum	consumer of pesticides in	Tamilnadu?	
		Coffee	(B)	Grapes		
		Paddy	(D)	Sugarcane		
74	D					
74.		icide residues can be mea	The second secon	The state of the s		
	1	GLC	(B)	Flame photometer		
	(C)	Mass spectrometer	(D)	Colorimeter		
75.	Flat	Fan Nozzles are exclusiv	ely used for spra	nying		
	(A)	Insecticides	(B)	Fungicides		
	cer	Herbicides	(D)	All the above		
	1	1				
76.	A he	erbicide belonging to 'Ac	etamide' group i	S		
	(A)	Fenuron	(B)	Butachlor		
	(C)	Atrazine	(D)	Nitrofen		
77.	Λbi	o-agent used to control S	alvinia molecta i	· c		
//-		Hyacinth moth	CANTON DATE OF THE PARTY OF THE	Flea beetle		
			(B)			
	(C)	Curculionid weevil	(D)	Scale insect		
78 .	Lora	anthus is a				
	(A)	Partial stem parasite	(B)	Total stem parasite		
	(C)	Complete root parasite	(D)	Complete leaf parasite		
79.	Hert	picide recommended for s	sugarcane crop is	6		
	(A)	Atrazine	(B)	Pendimethalin		
	(C)	Butachlor	(D)	Fluchloralin		
	(-)		(-)			
80.		mportant pre-emergence	and the second s			
	(A)	Atrazin	(B)	Butachlor		
	(C)	Paraquat	(D)	Propanil		
81.	Acq	mmon herbicide used in	sugarcane cultiv	ration is		
	(A)	Atrazine	(B)	Butachlor		
	(C)	Fluchloralin	(D)	Date disease health		
82.	Enri	ched FYM contains FYM	& SSP in the re	atio of		
()An		5: 2	(B)	5:3		
	(A)	5:1	(D)	4:1		
	-			7.1	_	
AG	RD 20	112	10			

83.	The major reason for global warming. Carbon di oxide	ng is the er	nission of	
	ii. Chlorofluro carbons			
	iii. Hydrogen			
	iv. Methane			
	(A) i, ii and iii of the above	(B)	i, ii and iv of the above	
	(C) i, iii and iv of the above	(D)	i, ii, iii and iv of the above	ve
84.	Which one of the following factors	is responsi	ible for 'guttation' in the p	olants ?
	(A) Humidity	(B)	Temperature	
	(C) Light	(D)	Wind	
85.	Layer of the atmosphere which is s	ubject to cl		alled
	(A) Troposphere	(B)	Stratosphere	
	(C) Tropopause	(D)	None of the above	
86.	Magnesium is a constituent of			
	(A) Xanthophyll	(B)	Anthocyanin	
	(e) Chlorophyll	(D)	Cytokinin	
87.	Which one of the following instrum	nents is use	ed to measure relative hum	aidity ?
071	(A) Anemometer	101110 10 400	a to modern relative man.	
	(B) Maximum thermometer			
	(C) Minimum thermometer			
	(D) Wet and dry bulb thermometer	er	•	
-00				
88.	Acid soils are characterized by a pl		7. 0	
	(A) <6	(B)	7 to 8	
	(C) 8 to 10	(D)	> 10	
89.	Which of the following pairs is cor	rectly mate	ched?	
	(A) Red Soil - Calcareous			
	(B) Alkali Soil – pH 9			
	(C) Black soil – rich in Kaolinite	•		
	(D) Laterite Soil – pH 8			
90.	Average composition of humus inc	ludes		
	(A) Carbon	(B)	Oxygen	
	(C) Nitrogen	(D)	All the above	
91.	Arrangement of soil particles is known	OWN 96		
71.	(A) Soil texture	(B)	Soil structure	4
	(C) Soil contour	(D)	Soil order	
	(C) Gon contour	(1)	America en	
92.	Absorption of water by roots in sal		•	
	(A) transpiration	(B)	transportation	
	(C) osmotic effect	(D)	shallow depth	
- m		11		AGRD 201

93.	Whi	ch one of the following	ng is a CAM plant?		
	(A)	Apple	(B)	Brinjal	
	(C)	Cowpea	(D)	Pineapple	
					nto odd dY 35
94.	Elec	trical conductivity of	Saline water should	he less than	
	(A)		(B)	5.0 dSm ⁻¹	
			(13)		
	(C)	6.0 dSm ⁻¹	(D)	7.0 dSm ⁻¹	
95.	Whi	ch type of soil is com	monly known as 'hu	ingry and thirsty	soil'?
	(A)	Black Soil	(B)	Alluvial Soil	polyments of a
	(C)	Laterite Soil	(D)	Red Soil	
96.	Orga	anic matter is abundar	ntly available in	Contract designs	ned to a contraction
	(A)	Sandy loam	(B)	Clay loam	and the
	(C)	Silt	(D)	None of the abo	ive
97,		on expanding type of	• • • •	rone of the acc	.,,,
7/1	(A)	Chlorite		Illite	
	• •	Kaolinite	(B)		to all ope
	(C)	Kaomme	THE WAY DO	Montmorillioni	ie a
98.	Recl	amation of sodic soils	s can be achieved by		
	i.	Applying gypsum			
	ii.	Green manuring			
	iii.	Leaching			
	iv.	Ponding			
	(A)	i, ii and iii of the ab	ove		
-	(B)	ii, iii and iv of the a			590
	(C)	i, iii and iv of the ab			
	(D)	i, ii, iii and iv of the			*
	(D)	i, ii, iii and iv of the	above		
99.	Carb	oon Sequestration is fa			
	(A)	Alley cropping	(B)	Agro Forestry	
	(C)	Monocropping	(D)	Strip cropping	
100.	Whi	ch of the following is	not a bio mass?		
	(A)		(B)	Grass	
	(2)	Sand	(D)	Wood	
	July	Sand	(D)	Wood	
101.	Ferti		f 1985 implemented	by Government	of Tamilnadu ensures
	(A)	Application	(B)	Distribution	
	105	Quality	(D)	Transport	
102	The	percentage of nitroge	n in the atmosphere	ie	
104.	(A)	21	A STATE OF THE PROPERTY OF THE PERSON	50	of their as runipo de
		63	(B)		
17.40	(C)		D	78	
AGE	RD 20	112	12		

103.	(A) (C)	Denitr	ificat		o molec	ular nitr	(B) (D)	Nitrifi	wn as ication onificatio	n			
104.	Sym (A) (C)	biotic a Mycor Parasi	rhiza		fungal	hyphae	with (B) (D)		ots is kno al infection			danif il	J.
105.	(a) (b) (c) (d) Code	List I Calciu Molyb Phosp Silicon	im odenu horus	m	by usin	g the co	(1) (2) (3) (4)	List Major Micro Micro		ient			
	(A) (B) (C) (D)	(a) 2 3 4 2	(b) 4 4 3 3	(c) 1 1 1 1	(d) 3 2 2 4			ici (w)					1
106.	An e (A) (C)	_		oncentra	ated Org	ganic ma	(B) (D)	Goat 1	manure y manure		State of the state	**************************************	
107.	C : N (A)	V ratio c 20 : 1	of Far	m Yard	Manur	e (FYM)) is (B)	40:1					
108.	(C) Padd (A)	50:1 ly takes NO2	nitro	gen in t	he form	of	(D) (B)	80:1 N ₂					
		Biofer Chemi Crop r Organ i, ii an i, iii an i, ii an	tilize ical fe esidu ic ma d iv o nd iv d iii o	rs ertilizer les anures of the al of the al	s bove bove bove e above		S					action 2	
110.	The (A) (C)	Frontl	ine D	onstratio emonst emonstr	ration	to impai	(B)	Metho	ed od Demor t Demons		in and		
Q ₁							13				A	GRD 201	2

111.		anism responsible fo			organica con Cl	
	(A) Blue	green algae	(B)	Azolla		
	(C) Azo	spirillum	(B)	Phosphobacteria		
112.	Implemen	t mostly used for int	ercultural opera	tion is		
	_	plough	(B)	Mould board plough		
		or hot	(D)	None of the above		
			ACCUMENTATION OF			
113.	Chemical	precipitation in Irrig	ation water occi	urs due to increase in		
	(A) Fe &	t HCO ₃	(B)	HCO ₃	TARGET	
	(C) Ca		(D)	CO ₃		
N. v		7 /534		-		
114.		t of sunflower	Idea State int			
	(A) 16 9		(B)	26 %		
	(e) 36 9	6	(D)	46 %	70	
115.	Which one	e of the following cr	ops is not comm	enly transplanted ?		
- Selver	(A) Brin		(B)	Bhendi		
	(C) Chil		(D)	Tomato		
	(0)	200	(2)	Tomato		
116.	Basin irrig	gation is commonly	adopted for	•		
	(A) Card	damom	(B)	Cabbage		
	(C) Coc	onut	(D)	Coffee		
117	Water sol	shla phosphotic forti	lizar ic			
11/1		uble phosphatic ferti		DAD		
	(A) Roc (C) SSP	k phosphate	(B) (D)	DAP Orthophosphoric acid	4	
	(0)			Oranophosphoric act	•	
118.		monly followed IFS	•	wetlands are		
_		e culture + Fish culti				
		e culture + Api cultu				
	` '	e culture + Seri cultu				
	(D) Rice	culture + Dairy far	ming			
119.	Citrus frui	its are commonly pro	opagated by			
	(A) Cutt		(B)	Layering		
		adding	(D)	Tongue grafting		
120.	_	der saturated condit				
	All the second s	tour tillage	(B)	Strip tillage		
	(C) Wet	tillage	(D)	Deep tillage		
121	Recomme	nded seed rate (two	budded) for suc	arcane / ha is		
121	(A) 75,0		(B)			
	(C) 55,0		(D)	45,000		
			Table to delete	SECURITY OF CHILDREN		
122.				arted by treating the se	eds with	
	(A) KCI	and in march	(B)	KH ₂ PO ₄	The same of the	
	(C) K ₂ S		(D)	KNO ₃		
AGI	RD 2012		14			

143.		ng is a post narvest management in	(**)		Arrest and
	(A)	Sugarcane	(B)	Cotton	
	(6)	Tobacco	(D)	Paddy	
124.		unt of rainfall received in a rainy d	-		
	(A)	2.5 mm and above	(B)	5.0 mm	
	(C)	10.0 mm	(D)	Less than 2.5 mm	
125.	Tota	l solar radiation is measured by usin	ng		
	(A)	Lux meter	(B)	Sunshine recorder	
	(C)	Pan-evaporimeter	(B)	Bellani's pyranometer	
126.	Reco	ommended spacing for Papaya is			
	(A)	1.8 × 1.8 m	(B)	$2.5 \times 2.5 \text{ m}$	
-	(C)	$3.5 \times 3.5 \text{ m}$	(D)	$3.8 \times 3.8 \text{ m}$	
	(0)	313 X 313 M	(2)	5.6 7.6.6 M	
127.	A hy	brid castor released from TNAU C	oimbai	tore is	
	(A)	GCH 4	(B)	DCH 177	
	(e)	TMVCH 1	(D)	TMVH5	
			` '		
128.	Arro	wing refers to			
	(A)	Flower initiation in wheat	(B)	Flowering of cotton	
	(C)	Flowering of maize	(D)	Flowering of sugarcane	
71.4				70.00	
129.		A' technique refers to			
	(A)	Participatory Rural Agriculture			
	(B)	People Related Agriculture			
	(C)				
,	(D)	Participatory Rural Appraisal			
130.	In ag	ricultural extension Mass Commun	icatio	n can be done through	
	(A)	Bulletin	(B)	Television	
	(C)	Newspaper	(D)	All the above	
	. ,		1,61		
131.	State	ement (A): Dibbling is a laborious cotton etc.	and ti	me consuming method of sowir	ig in maize,
	State	ement (B): Dibbling method requires results in uneven germi		2	ed and often
	(A)	Both statements (A) and (B) are tr			
	(B)	Both statements (A) and (B) are fa			
	(e)	Statement (A) is true but (B) is fall			1 ly siller
-	(D)	Statement (A) is false but (B) is tr			
	()				

15

AGRD 2012

132.	Whi	ch one of the	following o	constitutes	the lar	gest area in India?	
	(A)	Alluvial soil	ls		(B)	Black soils	
	(C)	Desert soils			(D)	Lateritic soils	
133.	The calle		closing a se	eed into a s	small o	quantity of inert material a	as a globular unit is
	(A)	Drilling			(B)	Hardening	
	(e)	Pelleting			(D)	Welting	
134.	Bend	ch terracing e	nables mair	nly			
	(A)	Rainwater h	arvesting		(B)	Soil conservation	
	(C)	Soil reclama	ation		(D)	Wasteland development	
135.	The	plant used for	moisture o	conservatio	n in di	rylands is	
	(A)	Sorghum			(B)	Soybean	
	(C)	Ber			(D)	Vetiver	
136.	Cult	ivation of cro	ps in areas	where rain	fall is	less than 750 mm per ann	um is termed as
	(i)	Rainted farm	^			•	
	(ii)	Dry land far	_			_	
	(A)	Only (i) is c	_		(B)	Only (ii) is correct	
	(C)	Both are con			(D)	Both are incorrect	
137.	Drip	irrigation is a	also called	as			
	(i)	Micro irriga	ition				
	(ii)	Surface irrig					
	(iii)	Surge irriga					
	(iv)	_					
	(A)	(i) and (ii) o			(B)	(i) and (iii) of the above	
	(e)	(i) and (iv) o			(D)	(ii) and (iii) of the above	e
138	Ona	lity of irrigati	on water is	estimated	hv		
100.	i.	Electrical co		oscimuod	o y		
	ii.	Infiltration r	•				
	iii.	Evaporation					
	iv.						
		Sodium ads			(D)	ii and iii of the above	
	(A)				(B)	and the same of the same of the same	
	(C)	i and iii of t	ne above		(D)	i and iv of the above	
139.			imum yield	in rice, the		of water in the field shot	ald not exceed
	(A)	2 cm			(B)	5 cm	
	(C)	8 cm			(D)	10 cm	
140.	WU	E is					
	(A)	Y/ET			(B)	Y/E	
	(C)	Y/T			(D)	None of the above	
AGI	RD 20	12			16		

141. Available water is between			
(A) FC and PWP		4	
(B) FC and Saturation			
(C) PWP and Hygroscopic coeff	ficient		
(D) None of the above			
			14.
142. Lysimeter is used for measuring			
(A) Evapotranspiration	(B)	Evaporation	
(C) Transpiration	(D)	Humidity	
r.	(-)	,	
143. Higher water use efficiency can be	e achieved v	vith the help of	0.00
(A) Furrow Irrigation	(B)	Drip irrigation	
(C) Corrugation	(D)	Basin irrigation	
(C) Corrugation	(D)	Dashi migadon	
144 Water requirement for pulses is			
144. Water requirement for pulses is (A) 200 mm	(Tex)	300 mm	
	(B)		
(C) 400 mm	(D)	350 mm	
145. Ground water contamination is ma	inly due to		
(A) Nitrate leaching	(B)	Erosion	
	, .	None of the above	
(C) Nitrons oxide emission	(D)	None of the above	
146. Rain bearing cloud is			
(A) Cirrus	(B)	Cumulonimbus	
(C) Cumulus	(D)	Nimbostratus	15
(C) Cumaids	(D)	TAILLOOSILALUS	
147. Short range weather forecasting re	fers to fored	casting weather parame	eters with in
(A) 3 days	(B)	7 days	
(C) 10 days	(D)	12 days	
(-)	(-)		
148. Longevity of a drone is about			
(A) 40 days	(B)	50 days	
(e) 60 days	(D)	70 days	
(c) oo days	(D)	10 days	
149. Any direct or indirect harmful effe	ect of one n	lant on another through	h chemical substances
is called	cet of one p	name on another unough	ii chemicai substances
(A) Allelopathy	(B)	Inhibition	
		Annihilation	
(C) Annidation	(D)	Ammination	
150. The suitable substrate for spawn p	reparation i	n mushroom cultivation	n is
(A) Cholam grains	(B)		11 15
	(B)		
(C) Wheat grains	(1)	All the above	
151. Which one of the following Bee y	ields maxim	um honey ?	
(A) Rock Bee	(B)	Indian Bee	
	1	Little Bee	
(C) Italian / European Bee	(D)	Little Bee	
	17		AGRD 2012

152.	Which of the following crop rota	tion is suitab	le for dry land areas	3 ?	
	(A) Rice - Gram	(B)	Sesamum - Gram		
	(C) Mustard - Cucurbits	(D)	Wheat - Cucurbits	depoint top is not	
153.	The ideal size of chopped leaves	for feeding t	he silkworm during	third instar stage is	
	(A) $0.5-1$ cm	(B)	1 – 2 cm		
	(e) 4 – 6 cm	(D)	6-8 cm		
		(-)	14111		160
154.	A nitrogen fixing tree species use	1. No. of the Park Park Park Park Park Park Park Park	7 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1		,
	(A) Neem	(B)	Eucalyptus		
	(e) Subabul	(D)	Teak		
155	Denomoble source of anomaria				
133.	Renewable source of energy is	(Dx	To and sociality		
	(A) Exhaustible	(B)	Inexhaustible		
	(C) Nuclear based	(D)	Biogas		
156	In India, the average intensity of	solar radiatio	on received is about		
100.	(A) $200 - 500 \text{ Cal/cm}^2/\text{day}$	Solai Tadiane	in received is about		
	(B) 400 – 700 Cal/cm ² /day				
	(C) 500 – 1000 Cal/cm ² /day				
	(D) $600 - 1200 \text{ Cal/cm}^2/\text{day}$				
	(D) 000 = 1200 Callelli /day				
157.	More number of wind mills are le	ocated in the	following district.		
	(A) Madurai	`(B)	Cuddalore		
	(C) Tirunelveli	(D)	Thanjavur		
150	Manch Tint Total Ying Ward and and		Y		
138.	Match List I with List II and sele List I	ct the correct List		e codes given below	0.1
	(a) Heterozygote	(1)			
			rr RR		
	• •	(2)			
	` '	(3)	Aa Bb Cc		2127
	(d) Dominant	(4)	AA BB CC		
	Codes: (a) (b) (c) (d)				
	(A) 4 3 2 1 (B) 4 3 1 2				
	(D) 3 4 2 1				
150	The progeny of a self - pollinates	d bomozveou	s plant obtained by	selfing is called	
45.70	(A) Inbred line		Isogenic line	sening is cance	
	A STATE OF THE PARTY OF THE PAR	(13)	_		
	(C) Multi line	(00)	Pure line		
160.	Highest adaptability is observed	in			
	(A) Single cross	(B)	Double cross		
	(C) TIT	(D)	Maddala		
2.000	D 2012	18	in zortupio or oto		
13. 8 W. 25	12 24012	×			100

161.	N use	e efficiency of fertilizers can	be enhance	ed by	
	(A)	Coating	(B)	Split application	
	(C)	Placement	(B)		
1/0	DI		dia af		
162.		prespiration is the characteris		C plants	
	(A)	J ^	(B)		
	(C)	CAM plants	(D)	None of the above	193
163.	Seed	testing is done for			
	(A)	Purity	(B)	Germination	
	(C)	Moisture content	(D)	All of the above	
164.	In su	nflower production of found	ation seed	requires an isolation distance of	
104.		400 metres	(B)		
-	(C)	200 metres	(D)		
	(0)	200 medes	(1)	100 metres	4
165.	Expa	and IPM			
	(A)	Insect Pest Management	(B)	International Pest Management	
,	(6)	Integrated Pest Managemen	t (D)	Insecticide and Pest Manageme	ent
166	The	locust warning station was es	tablished is	India in the year	
100.		1937	(B)		
	(0)	1939	(D)		
	(L)	1737	(17)	1940	
167.	Whic	ch one of the following is a n	aturally occ	curring growth inhibitor?	
		NAA	(B)		
	(e)	ABA	(D)		
168	DAD	ranges from			
100.	(A)	_	(B)	400 – 700 nm	
	(C)	800 – 900 nm	(D)		
	(C)	800 – 900 illi	(1)	000 – 900 MH	
169.		me phyllody disease is cause	d by		
	(A)	Bacteria			
	(B)	Fungus			
	(e)	Phytoplasma like organisms	(PLO)		
	(D)	Spiroplasma			
170.	Actio	ons to preserve the natural en	emies by e	nvironmental manipulation is kno	wn as
1,0.			(B)	_	,, ii als
	iei	Conservation	(D)	1	
-	, ,	Conscivation	(2)	Moraphoution	
171.	Whic	ch of the following organism	are not sto		
	(A)	Insects	(B)		
	(C)	Nematodes	(D)	Fungi	
172	The	earliest known fungicide is			
_ ,	(A)	Sulphur	(B)	Соррег	
	(C)	Mercury	(D)		
	(0)		19		AGRD 2012
			19		ACTIVID 4014

173.	The Insecticides Act enforced by Go (i) import of pesticides (ii) manufacture of pesticides (iii) research on pesticides	overnment	of India during 196	8 regulates	
	 (iv) transport of pesticides (A) (i), (ii) and (iii) of the above (B) (ii), (iii) and (iv) of the above 				
	(C) (i), (ii) and (iv) of the above (D) (i), (iii) and (iv) of the above				
	(b) (i), (iii) and (iv) of the above				
174.	Significant examples for biocontrol		ire		
	(A) eradication of Prickly pear we(B) Lantana weed	eea			
	(B) Lantana weed(C) Water hyacianth (Eichornia cr(D) As the above	rassipes)			1
175.	Research under participatory techno	ology devel	onment is mostly ca	erried out at	
2,01	(A) Experimental Farms	(B)	Farmers, Holdings		
	(C) Research Centres	(D)	None of the above		
176.	Expansion of 'GATT' is (A) General Arrangement on Taria (B) Government Agreement on Taria (C) General Agreement on Tariaf (D) Government Arrangement on	rade and T and Trade	ariff		
177.	Agricultural Price Commission is not (A) Commission on Agricultural II (B) Commission on Agricultural II (C) Agricultural Prices and Cost (D) None of the above	Prices Cost and Pr	rices		
178.	The apex institution in the field of r (A) Industrial Development Bank (B) State Bank of India (C) Reserve Bank of India (D) National Bank for Agriculture	of India			
179.	Which of the following is not a char	racteristic	of PRA?		
	(A) Quick	(B)	Interactive		. 6.
	(C) Team effort	(D)	Rigidity		
180.	Television is an	3000			
	(A) Audio aid	(B)	Visual aid		
_	(C) Audio-visual aid	(D)	None of the above		
181.	Taccavi loans are the loans from				
	(A) Private sector	(B)	Government		
	(C) Individual money lender	(D)	All the above		
AGF	RD 2012	20			0

182.	(A)		(B)	1969	Se ground	the
	(C)	1971	(D)	1973	mores.	
183.	Mark (A) (B) (C) (D)	Less than the total production More than the total production Equal to total production None of the above				192. Res
184.		h List I with List II by using the co	31111111	List II	auni X	170
	(a) (b) (c) (d)	Bulb Corm Rhizome Tuber	(1) (2) (3) (4)	Gladiolus Onion Potato Turmeric		194, Sup 1A, 1C)
	(A) (B) (C)	es: (a) (b) (c) (d) 1 2 4 3 2 1 4 3 1 2 3 4			Cun	2)
	(D)	2 1 3 4				
185.	Eri si (A) (C)	ilkworms are commercially reared Mulberry leaves Tobacco leaves	on (B) (D)	Castor leaves None of the above		(A)
186.	Facto (A) (B)	ors influencing Elasticity of supply Availability of Input of Production Length of Time Period			Farrer 14	(A)
	(C) (D)	Diversification of Production Act All the above	-		a (2) in policina e) instituen e (1) reservi	188 1 vp
187.	Loan (A) (C)	s extended for a period varying fro Short term loan Long term loan	(B) (D)	Medium term loan	OWI ds	(0)
	, ,					199. In N (A
188.	Ferti (A) (C)	lizer recommendation for hybrid co 150: 75: 75 kg NPK/ha 120: 60: 60 kg NPK/ha	(B) (D)	100 : 40 : 40 kg NPK 100 : 50 : 50 kg NPK	/ha	B) (C) (D)
	(A) (C)	xample of green leaf manure is Glyricidia Daincha	(B) (D)	Sunnhemp Sesbania rostrata		200, (3) (A) (B)
190.	Trad (A) (C)	e in textiles and clothing is govern Multilaterate Trading Agreement General Agreement on Trade in S		(b) Mulu-Hore Ag	reement	(G)
	. ,	-	21			RD 2012

191.	the family in a reasonable standard		utput of a farm will be too small to maintar
	(A) Reasonable holding	(B)	Minimum holding
	(C) Economic holding	(D)	High standard holding
192.	Reserve Bank of India was set u	p in the year	
	(A) 1904	(B)	1934
	(C) 1935	(D)	1948
193.	The most common method exist	s in regulated	markets is
	(A) Open auction system	(B)	Close tender system
	(C) Moghum Sale	(D)	Dara Sale
194.	Supporting prices of agricultural	commodities	are announced by
	(A) Agricultural Universities	(B)	ICAR
	(C) State Government	(D)	Agricultural Price Commission
195.	CGIAR means		
	(A) Consultative Group on Int		
	(B) Consultative Group on Inc		
	(C) Consultative Group on Inc		
	(D) Contact Group on Indian A	Agricultural R	eview
196.	Maximum Support Price (MSP)		
	(A) Average Cost of Production		Maximum Cost of Production
•	(C) Over all Profit	(D)	Total Cost of Production
197.	Levy Prices applies to		
	(A) Farmers	(B)	Traders
	(C) Farmers and Traders	(D)	None
198.	Expansion of IFOAM is		
	(A) International Foreign Agri	culture meetin	ng
	(B) International Federation of		
	(C) International Forum of Ag	ricultural Mo	vement
	(D) International Federation of	f Agricultural	Countries Meeting
199.	In NABARD, extent of refinance	e under variou	as activities includes
	(A) Pilot Rainfed Projects		
	(B) Waste Land Development		
	(C) Non Farm Sector Scheme	& Agro Proce	essing Promoting Units
	(D) All the above		
200.	Oligopoly market refers to		
	(A) Differentiated or Undifferentiated	entiated produ	icts or services
	(B) Few firms are in market	111	
	(C) Firm may be price maker		
	(D) All the above		
4	The state of the s		