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2014 AGRICULTURE

Time Allowed: 3 Hours]

[Maximum Marks: 300

ACEAC

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

IMPORTANT INSTRUCTIONS

- 1. 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. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series without any omission 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.
- 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 invigilator to mark the answers.
- 6. You will also encode your Register Number, Subject Code, Question Booklet Sl. 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, 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 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. 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. In all matters and in cases of doubt, the English Version is final.
- 13. Do not tick-mark or mark the answers in the Question booklet.

SPACE FOR ROUGH WORK

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1.	India		ant agricult	cural or horticultural products exported by
	(i)	Black pepper		
	(ii)	Apple		
	(iii)	Mango		
	(iv)	Jasmine		
	Of th	ne above		
	(A)	(i), (ii) and (iii)	VB)	(i), (iii) and (iv)
	(C)	(i), (ii) and (iv)	(D)	(i), (ii), (iii) and (iv)
2.		first State Agricultural Universit established in	y, G.B. Pan	t University of agriculture and technology
	(A)	1952	(B)	1959
	ues	1960	(D)	1961
3.	Inter	culture in Ground nut is avoided	at	
	(A)	Flowering stage	(B)	Pegging stage
	(C)	Seedling stage	(D)	None of these
4.	GDP	growth rate in 2011-12 is		
	(A)	10%	(B)	15%
	(C)	20%	(D)	25%
5.	Cont	ribution of Agriculture to the tota	l value of co	ommodity exports in India is
	(A)	Approximately 10%	(B)	Approximately 25%
	(C)	Approximately 30%	(D)	Approximately 35%
6.	Crop	logging technique is related to		
	(A)	Maize	JB1	Sugar cane
	(C)	Sugar beet	(D)	None of the above
7.	Whic	ch one of the following area (millio	on hectare) i	s classified as waste lands in India?
	-(A)	175	(B)	250
	(C)	75	(D)	300

8.	Suga	rcane p	oroducti	vity is hi	ghest i	n	and the state of t	
	(A)	UP				(B)	Tamilnadu	
	(C)	Maha	arashtra			(D)	MP	
9.	Sma	ll farme	ers deve	lopment	agency	was implemen	nted during the period of	
	(A)		l five ye			(B)	Fourth five year plan	
	(C)		five yea	-		(D)	Sixth five year plan	
10.	With	regard	l to tota	l wheat p	roduct	ion, India's po	sition in the world is	
	(A)	First				(B)	Second	
	(C)	Third	ł			(D)	Fifth	
11.	Land	l Equiv	alent Ra	atio (LEF	R) is rel	ated to		
	SAS		croppin			(B)	Sequential cropping	
	(C)		oning			(D)	None of the above	
12.	The	heetle :	zvgngrai	mma bico	lorata	is used to cont	rol the weed	
12.	(A)		r hyacir		AOT COC	OR O	Parthenium	
	(C)		nthema			(D)	Cyprus	
10	T 41		J Tan Jimin		in the	total savaal nu	nduction	
13.				position	i in the	total cereal pr	Second	
	(A) (C)	Third First				(Ď)	Fifth	
					4			
14.			crop cor below:		ith the	major produci	ing state and select your answer usi	ng the
		Crop				State		
	(a)	Grape	es		1.	Bihar		
	(b)	Peppe	er		2.	Maharashtra		
	(c)	Apple	1		3.	Kerala		
	(d)	Guava	a		4.	Himachal Pr	adesh	
		Codes	,					
		(a) ·	(b)	(c)	(d)			
	(A)	1	3	4	2			
	(B)	2	3	1	4			
	(C)	4	3	2	1			
	ON	9	. 2	1	1			

15.	Whic	h Indian state ranks first in the produ	iction c	of coffee?
	(A)	Kerala	(B)	Tamilnadu .
	JOY	Karnataka	(D)	Maharashtra
16.	The	appermost layer of atmosphere is		
	(A)	Troposphere	(B)	Mesosphere
	(C)	Stratosphere	SON	Thermosphere
17.	The p	practice of allowing the regrowth of the	e plant	ted crop is known as
	(A)	Mixed cropping	(B)	Ratooning
	(C)	Sequential cropping	(D)	Intercropping
18.	Dehu	ılled rice grain is known as		
	(A)	White rice	(B)	Brown rice
	(C)	Red rice	(D)	Grey rice
19.	Agric	culture which encompassing of		
	(A)	Crop production and livestock farming	(B)	Fisheries
	(C)	Forestry	SOR	All the above
20.	Atmo	osphere extends up to a height of		
	(A)	600 km	JBS	1600 km
	(C)	6000 km	(D)	240 km
21.	Gree	n revolution has been most successful	in	
	(A)	Wheat and potato	(B)	Wheat and rice
1	(C)	Tea and coffee	(D)	Barley and rice
22.	In wh	nich of the following state cotton grown	as ra	infed crop gets highest yield?
	(A)	Maharashtra	(B)	Haryana
	100	Gujarat	(D)	Punjab
23.	The I	N fertilizer use efficiency in rice can be	increa	ased by using
	(A)	S-coated urea	(B)	Urea super granules
	(C)	BGA	SON	Both (A) and (B)
24.	Whic	h of the following pulse crops is used a	s a pu	lse, a fodder and a green manure crop?
	(A)	Moong	(B)	Urd
	40%	Cowpea	(D)	Pea

25.	Asset	ertain (A): The productivity of total pulses in Tamilnadu increased from 270 kgs/ha (1970-71) to 492 kgs/ha (1994-95) and subsequently declined since 01-02.									
	Reas	Reason (R): The above subsequent decline in productivity of total pulses is mainly due to pest and diseases.									
	Optio	Options:									
	(A)	Both (A) and (R) are true and (R) is the correct explanation of (A)									
	(B)	Both (A)) and (R) are true but (R) is not the correct explanation of (A)								
	Jes	(A) is tru	ue but (R) is false								
	(D)	(A) is fal	se but (R) is true								
26.	Gree	n Revoluti	on was successfully imple	mented i	n which five year plan?						
	(A)	II		(B)	III						
-	/(C)	IV		(D)	V						
27.	India	is the lar	gest producer, consumer a	nd expor	ter of						
	(A)	Rice		(B)	Wheat						
	(C)	Sugarca	ne	(D)	Spices						
28.	Tent	h five year	plan of government of Inc	lia was e	executed during the period						
	(A)	2001-200	06	√ (B)	2002-2007						
	(C)	2000-200	05	(D)	2003-2008						
29.	Whic	ch two dist	ricts have lesser area und	er cotton	and sugarcane cultivation?						
	(A)	Salem a	nd Thiruvannamalai	(B)	Thiruvallur and Cuddalore						
	(6)	Kanchee	epuram and Thiruvallur	(D)	Cuddalore and Thiruvannamalai						
30.	Pher	omone tra	p attracts								
	(A)	Male bu	g	(B)	Female moth						
	(C)	Male mo	oth	(D)	Female bug						
31.	"Whi	iptail" is a	malady associated with th	ne nutrie	nt						
	√(A)	Molybde	enum	(B)	Manganese						
	(C)	Zinc		(D)	Copper						
32.	Whic	ch of the fo	ollowing elements are cons	idered a	s energy storers?						
	(A)	Hydroge	en, oxygen, sodium and bor	ron							
	(B)	Carbon,	nitrogen, phosphorus and su	llphur							
	(C)	Potassiu	ım, calcium and magnesiu	m							
	(D)	Iron, ma	nganese, molybdenum, copp	er and zi	nc ·						

33.	Whi	ich one	of the fe	ollowing	catego:	ries of drough	t i	s associated with high salt concentration?
	ZUS	Phy	siologica	l drough	t	(B	()	Soil drought
	(C)	Agr	icultura	drought		(E))	Hydrological drought
34.	Whi	ich of t	he follov	ving inst	itutes i	n India works	s fo	or dryland agriculture?
	(i)	CRI	DA					
	(ii)	ICR	ISAT					
	(iii)	APE	EDA					
	(iv)	DAN	NIDA					
	Of t	he abo	ve	I See				
	/(A)	(i) a	nd (ii)			(B)	(ii) and (iii)
	(C)	(iii)	and (iv)			(D))	(i) and (iv)
35.	Amı	monia	is transf	ormed in	to nit	rate by		
	(A)	Alga	ae			√(B)	Bacteria
	(C)	Fun	gi			(D)	Actinomycetes
36.	Nitr	ogen fi	ixing bio	fertilizer	s may	be used in pa	dd	y crop as
	(A)	Seed	d treatm	ent		(B)	Seedling root dip
	(C)	Broa	adcastin	g		√ (D)	All of the above
37.		ch one		followin	g is t	he minimum	re	equirement of Rhizobium at the time of
	√(A)	108	viable ce	lls/g of the	carrie	on dry wt (B)	10 ⁷ viable cells/g. of the carrier on dry wt
	(C)					er on dry wt (D		None of this
38.	Gree	en man	ure crop	s in 50-6	60 days	can able to a	ccı	umulate
	(A)		g N/ha			(B		90 kg N/ha
	(C)		kg N/ha			(D		60 kg N/ha
39.	Mat	ch the	followin	g and sel	ect the	correct code		
	(a)	Organ	nic man	ure	1.	Sesbania ac	ul	eata
	(b)	Green	n manur	e	2.	Compost		
	(c)	Green	leaf m	anure	3.	Pongamia g	lal	<u>bra</u>
	1	(a)	(b)	(c)				
	(A)	2	3	1	- /			
	(B)	1	2	3				
1	/(C)	2	1	3				ALCOHOLD BY A SECTION OF THE SECTION
	(D)	3	1	2				

40.	Whic	h of the following variety of Blackgra	am is rec	ommended for rice fallows:
	/(A)	ADT3	(B)	Т9
	(C)	CO1	(D)	CO2
41.	The 1	ratio of oil to seed in sunflower is		
1	/(A)	40%	(B)	28%
	(C)	60%	(D)	20%
42.	Wate	er requirement for sugar cane is		
	(A)	1100 mm	(B)	900 mm
1	/(C)	2500 mm	(D)	1600 mm
43.	The	required row spacing for the use of re	otary wee	eder in transplanted rice is
	(A)	30 cm	(B)	10 cm
	√ (C)	20 cm	(D)	15 cm
44.	Whic	ch of these will add calcium to the so	il withou	t changing the soil pH?
	(A)	Lime	(B)	Gypsum
	(C)	Superphosphate	(D)	Dolomite
45.	The	average composition of Humus is		
	(A)	Carbon 30%, Oxygen 30%, Nitroge	n 20%, F	lydrogen 10%, Ash 10%
	√ (B)	Carbon 50%, Oxygen 35%, Nitroge		
	(C)	Carbon 40%, Oxygen 30%, Nitroge	n 20%, F	Iydrogen 5%, Ash 5%
	(D)	None of the above		
46.		t efficient land management practice	e evolved	by ICRISAT for moisture conservation in
	(A)	Narrow bed conservation system	√(B)	Broad bed furrow system
	(C)	Furrow improvement system	(D)	Moisture conservation system
47.	Mois	sture index is calculated by using		
	(A)	$MI = \frac{P}{PET}$	(B)	$MI = PET \times P$
	√ (C)	$MI = \frac{P - PET}{PET}$	(D)	MI = P - PET
48.	Wea	akly joining of soil particle is referred	l to as	
	(A)	Granular structure	(B)	Crumb structure
	(C)	Platy structure	(D)	None of the above
AC	FAG		8	

49.	teg	rated nutrition management is the uses of	
	(A)	Organic wastes available in the farm (B)	Organic manures and inorganic fertilizers
	(C)	Bio-fertilizers (D)	All the above components
50.	The b	lanket fertilizer recommendation for irrigat	ed Ragi crop is
	(A)	100 Kg N : 50 kg P_2O_5 : 50 Kg K_2O/Ha (B)	200 Kg N : 100 kg \rmP_2O_5 : 100 Kg \rmK_2O/Ha
	(0)	60 Kg N : 30 kg P_2O_5 : 30 Kg K_2O/Ha (D)	20 Kg N : 15 kg P_2O_5 : 15 Kg K_2O/Ha
51.		all of more than 30 cm per month for atleaultivation of	st three consecutive months is suitable for
	(A)	Sugarcane	Paddy
	(C)	Sunhemp (D)	Groundnut
52.	Mech	anical measures of soil conservation include	
	(i)	Contour bunding	
	(ii)	Bench terracing	
	(iii)	Check dams	
	(iv)	Percolation ponds	
	(A)	(i), (ii), (iv) (B)	(i), (iii), (iv)
~	(C)	(i), (ii), (iii) (D)	All the four
53.		ectrical conductivity of less than one millim ant growth is	hos per cm indicates that the soil condition
	(A)	Above normal (B)	Critical
	(C)	Injurious \checkmark (D)	Normal
54.	Cause	es of soil salinity	
	(i)	The soluble salts are leached from high-lyi	ng to low-lying areas due to high rainfall.
	(ii)	Irrigation of soils with saline water.	
	(A)	(i) is correct (B)	(ii) is correct
~	/(C)	Both are correct (D)	Both are not correct
55.	Acid	soils are characterised by a pH of	
	(A)	> 8	< 6
	(C)	8 to 10 (D)	7 to 8

56.		xture of dark coloured organic dilute alkali and precipitated b		indefinite composition extracted from soil is known as
	(A)	Vermicompost	✓(B)	Humic acid
	(C)	Compost	(D)	Farm yard manure
57.	Whice fertil		parameters w	ould give the best indication of general
	(A)	Phosphorous	(B)	Potassium
~	/(C)	Organic matter	(D)	Sulphur
58.	Weat	her forecasts for a period of one	e week is grou	ped under
	(A)	Quick forecasts	(B)	Short range forecasts
~	/(C)	Medium range forecasts	(D)	Long range forecasts
59.	Whic	h of the following is a multi pu	rpose tree spe	cies?
	(A)	Albizia amara	(B)	Azadirachta indica
4. 4.	(C)	Albizia lebbeck	√ (D)	All the above
60.	Alley	cropping is known as		
	(A)	Ley system	(B)	Silvi-pastural system
	(C)	Food-cum-fruit system	√ (D)	Hedgerow inter cropping
61.	Cher	nical used in cloud seeding/arti	ficial rainfall	is
	(A)	Calcium chloride	(B)	Potassium iodide
	(C)	Sodium chloride	✓(D)	Silver chloride
62.	The	formula to convert centigrade in	nto Fahrenhei	t is
	(A)	$^{\bullet}F = (^{\bullet}C - 32) \times \frac{5}{9}$	(B)	$^{\circ}F = (^{\circ}C + 32) \times \frac{5}{9}$
~	/(C)	$^{\circ}F = ^{\circ}C \times \frac{9}{5} + 32$	(D)	$^{\circ}F = ^{\circ}C \times \frac{9}{5} - 32$
63.	Lysin	meter - A device used to measu	re	
	(A)	Depth of water	(B)	Rate of flow of water
~	/(C)	Evapotranspiration	(D)	Water temperature
64.	Clim	atological information of partic	ular area help	os to
	· (A)	Develop irrigation design	(B)	Develop irrigation need
	(C)	Extract ground water	(D)	All the above

10

65.	n Ta	amilnadu, the contribution of	rainfall by the r	north east monsoon is
	(A)	22%	(B)	48%
	(C)	66%	(D)	78%.
66.	The	length of crop growing season	ı (days) in Cauve	ery delta zone of Tamilnadu is
	/(A)	100-120 days	(B)	250-270 days
	(C)	165-180 days	(D)	100-140 days
67.	How	many Agro climatic zones ar	e in Tamilnadu?	
	(A)	Five	✓(B)	Seven
	(C)	Eight	(D)	Nine
68.	Grov	ving two or more crops in the	same field simu	ltaneous in definite proportion
	(A)	Companion cropping	(B)	Sequential cropping
1	/(C)	Inter cropping	(D)	Mixed cropping
69.		name of the rice growing ilnadu is known as	season betwee	n the months of may to September in
	(A)	Kuruvai	(B)	Kar
-	/(C)	Swarnavari	(D)	Samba
70.		a well accepted conservation staining fertility of soil	measure in cont	rolling run-off and soil erosion and thereby
-	/(A)	Strip cropping	(B)	Inter cropping
	(C)	Contour farming	(D)	Mixed cropping
71.	In nu	uts and oil seeds, the limiting	amino acid is	
	(A)	Threonine	(B)	Tryptophan
-	(C)	Lysine	(D)	Methionine
72.	Unde	er drought conditions, plants	show increase in	n la
	(A)	Abscisic acid	(B)	Proline
	(C)	Ethylene	√ (D)	All the above
73.	Whic		urces is utilized	to the maximum for crop production in
	(A)	Godaveri	(B)	Chambal
	(C)	Chinav	✓(D)	Ganga

14.	111 10	oo, Mender postulated laws of fille	ilitalice ba	ised off his work with
	(A)	Drosophila	(B)	Field beans
-	/(C)	Garden pea	(D)	Pigeon pea
75.	Mino	or millets are rich source of		
	(A)	Proteins and vitamins	(B)	Vitamins and Tryptophan
	(C)	Lysine and Tryptophan	√ (D)	Proteins and Lysine
76.	The	science which is used for genetic im	provemen	t of crop plants is referred to as
	(A)	Plant breeding	(B)	Science of crop improvement
	(C)	Crop improvement technology	(D)	All the above
77.	Cros	s of F1 with either of its parents is		
	(A)	Test cross	√ (B)	Back cross
	(C)	Direct cross	(D)	Polyhybrid cross
78.	In pl	ant breeding, homozygous individu	als are rep	presented as
-	√(A)	RR or rr	(B)	HP or hp
	(C)	HH or hh	(D)	FF or ff
79.	Cons	sider the statements		
	(1)	Colchicine is most widely used for	r chromos	ome doubling
	(2)	It is a poisonous chemical isolate	d from see	eds and bulbs of crocus
	(3)	Pure colchicine is C ₂₂ H ₂₅ O ₆ N		
	(4)	It blocks spindle formation		
	Of th	nese		
	✓(A)	All are correct	(B)	Four alone is correct
	(C)	Two alone is correct	(D)	One and three are correct
80.	Bree	eding methods for self-pollinated cro	ops are	
	(i)	Mass selection		
	(ii)	Pure line selection		
	(iii)	Pedigree methods		
	(iv)	Back cross methods		
	Of the	he above		
	(A)	(i), (ii) and (iii)	(B)	(i), (iii) and (iv)
	(C)	(i), (ii) and (iv)	~(0)	(i), (ii), (iii) and (iv)

81.	Bulk population breeding is suitable for												
	(A)	Flow	er crops	s		1	(B)	Vegetable crops					
	(C)	Fruit	crops			~	(D)	Small grains					
82.	Lam	arck pr	oposed										
	(A)	Theo	ry of Pa	ngenesis	8 .		(B)	Theory of Epigenesis					
	(C)	Perfo	rmance	theory		~	(D)	Theory of acquired characters					
83.	Mos	t comm	only us	ed test fo	or estimat	ing GC	A in c	rop species is					
	(A)	Proge	eny test	t			(B)	Top cross test					
	(C)	Singl	le cross	test		~	(D)	Poly cross test					
84.	Dise	Disease and pest resistance is governed by											
	(A)	Oligo	genes	**			(B)	Polygenes					
	(C)	Mono	ogene	- 6			(D)	All of the above					
85.	The	term cy	brid re	fers to th	ne								
	(A)	Soma	atic hyb	rids			(B)	Gametic hybrids					
	(C)	Soma	atic and	gametic	hybrids		(D)	None of these					
86.		Cotton is often cross pollinated crop in which about — percent of cross pollination occurs.											
-	(A)	25%					(B)	40%					
	(C)	50%					(D)	75%					
87.	The	flower	nart ro	noved or	made no	a-functi	onal a	during emasculation is					
01,	(A)	Anth	100	noved of	made noi	1-Idilcu	(B)						
	(C)	Coro					(D)	Ovary					
88.	Mat	ch the f	ollowin	g and so	lect the co	rrect or	tion						
00.	14100	List I	OHOWIN	g and se	icci the co	ricci of	List	п					
	(a)	Agricu	ıltural	crop Qua	rantine	1.	DW	R, Karnal					
	(b)	Gene	bank of	wheat		2.	Obs	solete cultivars					
	(c)	Land:	race			3.	NB	PGR, New Delhi					
	(d)	Impro	ved var	rieties of	recent pa	st 4.	Pri	mitive cultivars					
		(a)	(b)	(c)	(d)								
	(A)	1	3	4	2			MICH TO LEAR THE STATE OF					
	(B)	2	1	3	4								
	(C)	2	3	4	1 '			WHEN THE STREET					
	✓(D)	3	1	4 .	2			FOR BUILDING TO SERVE					

89.	Which one of the following is a brinjal variety resistant/tolerant to aphids?											
	(A)	Annamalai	(B)	Pusa Ruby								
	(C)	Pusa Early Dwarf	(D)	Rashmi								
90.	East	coast tall is a traditional var	riety of									
	(A)	Sorghum	(B)	Palmyrah								
	(C)	Coconut	(D)	Oil palm								
91.	In T	amilnadu, which of the follo	wing research c	entres are evaluating/releasing sugarcane								
	varie	eties?										
	(i) (ii)	Sugarcane Breeding Institu Sugarcane Research Statio										
	(iii)	Agricultural Research Stat	ion, Sirugamani									
	(iv)	Agricultural Research Stat	ion, Aliyarnagar									
	Of th	ne above										
	(A)	(i) and (ii)	√ (B)	(i), (ii) and (iii)								
	(C)	(i), (ii), (iii) and (iv)	(D)	(i), (ii) and (iv)								
92.	Whic	Which one of the following is a popular Cashewnut variety cultivated in TamilNadu?										
	(A)	TMV - 12	(B)	CO -2								
	(C)	AU - 2	√ (D)	VRI – 2								
93.	Kufr	i Jyoti is a variety of										
	(A)	Carrot	(B)	Cauliflower								
	((0)	Potato	(D)	Rose								
94.	The l	headquarters of the union for	the protection	of new plant varieties (UPOV) is located at								
	(A)	Bangkok	√ (B)	Geneva								
	(C)	Moscow	(D)	Washington								
95.	Varia	ation arising during tissue cu	lture of plants is	s known as								
	(A)	Mutation	(B)	Selection								
	~(C)	Somaclonal variation	(D)	All the above								
96.	Clon	ing means										
	(A)	Making an identical copy p	hysically as well	l as genetically								
	(B)	Exact replica of plants or a	nimals replicate	d asexually								
î	(C)	Deriving genetic matter from	om single parent	s								
-	√(b)	All the above										

01.	THE .	mist recombinant DIVA molecule wa	is produce	ou by								
		Stanley Cohen and H.Boyer	(B)	T.N. Morgen								
	(C)	Walter Sutton and T. Boveri	(D)	Calgene								
98.	Muta	ation is due to change in gene becau	ise of									
	(A)	Loss	(B)	Degeneration								
	(C)	Addition	√(D)	All of these								
99.	Gend	omic imprinting occurs in										
	(A)	Plants	(B)	Animals								
	(C)	Humans	(Q)	All of these								
100.	RFLP is a											
	(A)	Genetic marker	√(B)	Molecular marker								
	(C)	Morphological marker	(D)	Physcological marker								
101.	Phalaris minor is a major weed in											
	(A)	Rice	(B)	Maize								
	(C)	Wheat	(D)	Sorghum								
102.	Consider the statements.											
	The state seed certification agencies perform the following functions:											
	(i)	They select seed growers										
	(ii)											
	(iii)											
	(iv)	They guide the seed growers on p	roduction	, processing and distribution of seeds								
	Of th	ne statements										
	(A)	(i) alone is correct	(B)	(i) and (ii) are correct								
	(C)	(i), (ii) and (iii) are correct	~(D)	All are correct								
103.	Mini	mum isolation distance for foundati	ion seed p	roduction in field crops is								
	(A)	Two metres	√(B)	Three metres								
y •	(C)	Four metres	(D)	Five metres								
104.	Seed	sample taken from laboratory samp	ple for tes	sting is known as								
	(A)	Primary sample	(B)	Composite sample								
	(C)	Submitted sample	(D)	Working sample								

105.	Seed health tests may be done through											
	(A)	Visual exam	ination		(B)	Washing test					
	(C)	Soaking			~	D)	Any one of the above					
106.	The	isolation dista	nce for ce	rtified s	seed produc	ction	n in cole crops is					
	$\Lambda(A)$	1500 m			(B)	1000 m					
	(C)	500 m			(D)	100 m					
107.	-	s in seed mult	iplication	are as	follows:							
	(A)						ristered seed (iv) certified seed					
	(B)	(i) Foundation	on seed (ii	i) certifi	ied seed (iii	i) br	reeder seed (iv) registered seed					
	(C)	(i) Certified	seed (ii) b	reeder	seed (iii) re	egis	tered seed (iv) foundation seed					
	(D)	(i) Registere	d seed (ii)	founda	ation seed ((iii)	breeder seed (iv) certified seed					
108.	Match the crops with the respective seed tests. Select the correct code.											
		Crop			Seed test							
	(a)	Sorghum	100	1.	Peroxidas		est					
	(b)	Wheat		2.	NaOH tes	st						
	(c)	Soyabean		3.	PAGE							
	(d)	Cotton		KoH B le	ach	test						
		Codes	1-14									
	1	(a) (b)	(c)	(d)								
,	(A)	4 / 2 /	1/	3								
. /	(B)	1 4	2	3								
	(C).	2 3	1	4								
	(D)	4 2	3	1								
109.	Whi	ch is the most	useful me	thod of	detecting	viru	s infection in seeds?					
	(A)	Seed plating	20		(B)	Phago test					
	(C)	ELISA			((D)	None of these					
110.	The	ideal requirem	ents for g	good see	ed are							
	(A)	Genetic and	physical	purity	((B)	Good germination					
	(C)											
111.	The	Seeds Act was	enacted l	by the p	arliament	in t	he year					
	(A)	1965			~	B)	1966					
	(C)	1967.				(D)	1968					
	(0)	1001			- 2	(

112.	Indian seed industry comprises of state seeds corporations numbering												
•	(A)	10	(B)	11									
	(C)	12	(D)	13									
113.	The t	est used for quick testing of viab	oility of seeds	is									
	(A)	Acid Fuchsin test	(B)	Thiourea test									
	(C)	Tetrazolium test	(D)	Succinic acid test									
114.	For b	reeder seed production, colour o	f tag used in	the field is									
	(A)	Blue	(B)	Golden Yellow									
	(C)	White	(D)	None of the above									
115.	The s	seed of rice contains 7 – 8% prote	ein which is l	ocated in?									
	(A)	Aleurone layer	(B)	Husk	18								
	(C)	Inside the endosperm	(D)	Embryo									
116.	Which one of the following herbicide is non-selective in action?												
	(A)	Atrazine	(B)	Butacheor									
	(C)	Alachlor	~RO)	Paraquat									
117.	In na	In nature, insect pest population is kept under check by factors such as											
	(A)	Topographic	(B)	Climate									
	(C)	Biotic	(D)	All the above									
118.	Pest	surveillance comprises of											
	(A)	One basic component	(B)	Two basic components									
	((C)	Three basic components	(D)	More than three components									
119.	Spre	ead of pest from one field to anot	ther is largely	determined by									
	(A)	Rainfall	(B)	Temperature									
	(C)	Humidity	(D)	Wind current									
120.	Nen	natodes and wilt disease are ma	jor problems	in the cultivation of									
	(A)	Chrysanthemum	(B)	Crotons									
	~(C)	Crossandra	(D)	Crotalaria									
			17		ACFA								

141.	Com	ponenc	s of mile	grated	nsease man	agement includes					
	(A)	Surv	eillance			((B)	Agronomic practices			
	(C)	Host	plant re	sistanc	e	~	的	All the above			
122.	Mat	ch the i	following								
		Targe	t functio	n		Symptoms induced					
	(a)	Mobil	ization o	f stored	food	1. Root and foot rot					
	(b)	Absor	ption of	water n	ninerals	2. Damping off and seedling blight					
	(c)	Water	transpo	rt and	translocation	a 3.	Lea	f curl, whiteness broom			
	(d)	Meris	tematic	activity	tivity			scular wilt			
		(a)	(b)	(c)	(d)						
	(A)	1	2	3	4						
-	√ (B)	2	1	4	3						
	(C)	4	2	1	3						
	(D)	3	1	2	4						
123.	Phy	sesame	is cause	ed by							
	(A)	Bact	eria			. ((B)	Insects			
	~(C)	Myco	plasma			((D)	Virus			
124.	The	term n	ecrosis i	ndicate							
	(A)	Curl	ing			- ((B)	Blightening			
	(C)	Altro	phy			4	D)	Death of cells			
125.	Root	wilt of	f coconut	is incit	ed by						
120.	(i)	Pyth		15 IIICI	cu by						
	(ii)		rium								
	(iii)		oderma								
	(iv)		oplasma								
		he abov									
	(A)		nd (ii)				(B)	(ii) and (iii)			
	~(C)	(iii)	and (iv)				(D)	(i) and (iv)			
ACI	AG					18					

126.	Little leaf disease in brinjal is caused by a												
	(A)	Viru	ıs			(B)	Fungus						
	L (C)	Phy	toplasm	a		(D)	Bacterium						
127.	Whi	ch one	of the fo	llowing	ery disease in vegetable crops?								
	(A)	Antl	nracnose	. 1		(B)	Blight						
	(c)	Dam	ping off			(D)	Rust						
128.	Fals	se smut	of rice	s caused									
	(A)	Scle	rotinia s	clerotion	um	(B)	Claviceps purpurea						
	(C)	Clav	viceps or	yzae sat	ivae	(D)	<u>Ustilago oryzae</u>						
129.	Tristeza disease is commonly found in												
	(A)	Gua	va			(B)	Grapes						
	(C)	Citr	us			(D)	Banana						
130.	Presence of 'bore hole' at the base of sorghum stem is caused by												
	(A)		ilooper			(B)	Stem borer						
	(C)	Leaf	roller			(D)	Gall fly						
131.	Mat	ch the	followin	g:									
	(a)	Rice s	stem bor	er	1.	Silver shoot							
	(b)	GLH			2.	Hopper burn							
	(c)	Ear h	ead bug		3.	Yellow dwarf							
	(d)	Gall f	ly		4.	Black spot on	the grain						
	(e)	BPH			5.	Deadheart							
		(a)	(b)	(c)	(d)	(e)							
-	(A)	4	5	2	3	- 1							
	(B)	2	3	4	1	5							
	(C)	3	4	2	5	1							
	(D)	1	2	3	4	5							

132.	Rhin	oceros beetle is a destructive p	est of	
	(A)	Mango	(B)	Coconut
	(C)	Citrus	(D)	Guava
133.	Nibb	le and cut off in rice ear heads	are due to	
	(A)	Ear head bug	(B)	Grass hopper
	(C)	Horned caterpillar	(D)	Leaf folder
134.	Trac	e the logical sequence in effecti	ive disease ma	nagement
	JA)	Surveillance → quarantine	→ regulatory	→ exclusion → use of chemotherapeutant
	(B)	Surveillance → regulatory -	→ exclusion →	quarantine → chemotherapeutants
	(C)	Quarantine → surveillance	→ regulatory	→ exclusion → chemotherapeutants
	(D)	Quarantine → regulatory →	exclusion →	surveillance → chemotherapeutants
135.	То со	ontrol whitefly in cotton, the nu	umber of yellow	v sticky traps required per ha is
.5	(A)	20	(B)	5
	(C)	40	1	12
136.	In su	agarcane cultivation, if the selt	treatment is n	not done, the crop is prove to
	(A)	Early shoot borer	(B)	Mealy bugs
	16)	Scale insects	(D)	Whitefly
137.	The	economic threshold level for ric	ce stem borer is	s ·
-	JA)	10% dead heart	(B)	12% dead heart
	(C)	15% dead heart	(D)	20% dead heart
138.	Impo	ortant components of insect per	st managemen	t are
	(A)	Cultural	(B)	Mechanical
	(C)	Biological	(b)	All the above
1				

20

								THE RESERVE OF THE PARTY OF THE
120	N							
13	ne	No.'						
	/A)	variet	ties resis	tance to	wi- m			
1	(A)	AD'	T.32 and	IR so	rice Tu	ingro dis	ease ar	
	(C)	ASI	16 and	ID o.			Mr.	
			- Line	in 64			(D)	ADT 37 and IR 64
1000	(A)		niesbil	1		-	(D)	ASD 18 and ADT 32
	(C)	Sem	i-spread	ing type	-		(D)	None of the attver
1	(0)							
								图度对话:一个图图图图影影
141.	Sum	mer nl	oughing	is essent	ial to			
	(A)			water ho		anacity	(B)	Kill weeds
	(C)		roy insec		Ium C	apacity	-(D)	All the above
	(0)	Desc	TOY HISCO	t papac			(2)	
				Linkshi				
142.	Sele	ct the	exact exp	ansion fo	or the a	acronym	'IRM'	
	(A)	Inse	ct Resist	ance Mai	nagem	Insecticide Residue Management		
party.	16)	Inse	cticide R	esistance	Mana	gement	(D)	Insect Resurgence Management
2000	(0)	IIIoc	COLOTO 10					
143.	Mate	ch list	I with li	st II by u	sing th	ne code g	iven be	low:
		List I				List II		
1000	(a)	Physi	cal poiso	n	1.	Nitrop	henols	
	(b)	Proto	plasmic	poison	2.	H ₂ S		
	(c)		ratory p	oison	3.	Silica		
	(d)	Nerve	e poison		4.	Pyreth	rum	
		(a)	(b)	(c)	(d)			
	A	3	1	2	4			
	(B)	1	2	3	4			The state of the s
	(C)	2	1	4	3			
	(D)	3	2	4	1			

144. Which one of the following is grouped under fumigants?

(A) HCH

Aluminium phosphide

(C) Methyl eugenol

(D) Isopropyl cresols

145.	Which one of the following is correctly matched?											
	(A)	Arsenicals	-	Cycloate								
	(B)	Carbamates		Hexaflurate								
	(6)	Bipyridilliums	-	Paraquat								
	(D)	Phenols	<u>-</u> -	Dalapon								
146.	Whic	ch of the following ch	nemical i	s mostly common	nly used in India?							
	(A)	Insecticide		(B)	Herbicide							
	(C)	Acaricide		(D)	Fumigant							
147.	Whic	ch herbicide is havin	g higher	persistence in s	oil?							
,	(A)	Atrazine		(B)	Pendimethalin							
	(C)	Paraquat		(D)	2, 4 – D							
148.	Rice	weevil larvae feeds	on grain	s								
	-(A)	Internally		(B)	Externally							
	(C)	Broken grains		(D)	Scarving grains							
149.	The	bruchid infestation i	n storag	e pulses can be t	created with neem oil in the ratio of							
	(A)	1:50		VB)	1:100							
	(C)	1:25		(D)	1:5							
150.		n storage space is g nod of storage is kno		s not sufficient f	food grains are stored in the open air,	his						
	(A)	Open storage		(B)	Closed storage							
	405	CAP storage		(D)	Bulk storage							
151.	Press	hid beetle can cause	nod da	nage in groundn	ut to the extent of							
101.	(A)	70 – 80%	pou uai	(B)	80 – 90%							
7	(4)			(D)	None of the above							
3	(U)	90 – 100%	NE.	(D)	None of the above							

22

1:0	Her	metic	principle	s are re	lated	0			
	(A)	Soil	pests				(B)	Foliar pests	
	(C)	Spie	ces pests				(b)	Stored grain pests	
3.						Harris			
150	T/	-1							
153.			nts in w	eed man	agem	ent are			
	(A)		vention				(B)	Control	
	(C)	Era	dication				4 b)	All the above	
154.	Sola	risatio	on is a we	eed cont	rol me	thod which	ch come	s under	
	(A)	Che	mical co	ntrol			(B)	Biological control	
	COY	Phy	sical con	trol			(D)	Cultural control	
	0								
								。	
155.	Mat		weed an	d its typ	e and	t code.			
		Weed		`		Type			
	(a)		grass		1.	Grassy			
	(b)	Carpet weed 2.			Aquatic Broad lea				
	(c) (d)	Bermuda grass Water hyacinth		3. 4.	Sedges	aved			
	(u)	wate	er myacin	tii	4.	beuges		打手的科学上美国生产的	
		(a)	(b)	(c)	(d))		·	
	(A)	1	3	4	2				
	(B)	4	3	1	2				
	(C)	1	4	3	2				
	(D)	4	1	3	2				
156.	The	herbio	cides whi	ich move	e from	place of	applicat	ion to place which show ultimate effe	ect is
		wn as							
	(A)	Con	tact herb	oicide			(B)	Translocated herbicide	
	(C)	Sele	ective her	rbicide			(D)	Non selective herbicide	
157.				ion in ri	ce is e	ffective ag	ainst		
	(A)	Sed	ges			Ser	(B)	Grasses	
	(C)	Bro	ad leaved	d weeds			(D)	None of the above	

	(i)	Submerged orifice										
	(ii)	Pipe orifice										
	(iii)	Parshall flume										
	(iv)	V - Notches										
	Of th	e above										
	(A)	(i) and (ii)	B	(iii) and (iv)								
	(C)	(iii) alone	(D)	(iv) alone								
159.	Gas formed in biogas plant is											
	(A)	Dithane .	(B)	Ethane								
	(C)	Indane	40)	Methane								
160.	Iden	tify the correct sequence of ac	tivities with reg	ard to silkworm rearin	16							
	(A)	Brushing → mounting → c	hawki rearing -	late age rearing								
	(B)	Mounting → brushing → cl	hawki rearing –	late age rearing								
	(C)	Mounting → chawki rearing → late age rearing – brushing										
	VDS	Brushing → chawki rearing	g → late age rea	aring - mounting								
161.	Choo	se the correct answer:										
	A sin	gle colony of Rock bee yields	upto									
	(A)	30 kg of honey	(B)	40 kg of honey								
	401	50 kg of honey	(D)	60 kg of honey								
162.	A go	od quality irrigation water sho	ould have an EC	Cof								
	(A)	< 4.5 ds/m	VBS	< 1.5 ds/m								
	(C)	< 0.5 ds/m	(D)	3 to 5 ds/m								
ACF	AG		24									

158. Channel flowing irrigation water is measured by

16. Relative Yield Total (RYT) in cropping system is

(A)
$$\frac{Y ba + Y bb}{Y aa + Y ab}$$

(B)
$$\frac{Y bb + Y ba}{Y aa + Y bb}$$

(C)
$$\frac{Y aa + Y bb}{Y ba + Y ba}$$

$$\frac{\text{Y ab} + \text{Y ba}}{\text{Y aa} + \text{Y bb}}$$

164. Choose the correct answer:

Apiculture is a subsidiary occupation and provides additional income to

- (A) Small farmers
- (B) Marginal farmers
- (C) Landless labourers
- All the above

165. Which state produces maximum mulberry silk?

- (A) Karnataka
- (B) Andhra Pradesh
- (C) TamilNadu
- (D) West Bengal

166. Which one of the following is correctly matched with the pebrine disease of silkworm?

(A) Beauveria

(B) Aspergillus

(E) Nosema

(D) NPV

167. Which one of the following is the correct order of arrangement of the parts in a beehive from bottom to top?

- Bottom boards, brood chamber, super chamber, roof
- (B) Bottom board, super chamber, brood chamber, roof
- (C) Bottom board, super chamber, roof
- (D) None of the above

	(i)	Four types of silkworm an	re reared in India.				
	(ii)	89% of total silk produced in India come from mulberry silk worm.					
	(A)	Statement (i) and (ii) are wrong					
	(B)	Statement (i) is wrong and (ii) is correct					
	(C)	Statement (i) is correct and	(ii) is wrong				
	OF THE	Statement (i) and (ii) are	correct				
	94						
169.	The c	crops recommended for the	tannery waste aff	ected soils are			
	(A)	Tomato (PKM1) and Brin	jal				
	(B)	Rice (ASD16) and Ragi (C	2012)				
	(C)	Sunflower (CO4) and mus	stard				
	SOS	All the above					
170.	The l	and capability classes suite	ed for cultivation i	8			
1.0.	(A)	V to VIII	(B)	II to IV			
	(0)	I to IV	(D)	VI to VIII			
	500						
			-				
171.	DFL	is related to					
	JAS	Silkworm	(B)	Earth worm			
	(C)	Honey bee	(D)	Soil pests			
172.	Unit	of radient energy is					
	JAY	Langley	(B)	Lysi			
	(C)	Isotach	(D)	Isobel			
173.		ring of two or more crops si	multaneously on t	he same piece of land wit	hout definite row		
		rn is called	(T)	M. Idiala			
	(A)	Inter cropping	(B)	Multiple cropping			
	Joseph	Mixed cropping	(D)	Sequence cropping			
ACF	FAG		26	3			
TAUL			20				

168.

Consider the statements:

1	Stilli	ing is the process involved in				
	(A)	Apiculture	(B)	Lac culture		
	(0)	Sericulture	(D)	Vermi culture		
175.	The c	ountry plough produced in one of the fo	ollowin	ng places is very famous in Tamil Nadu		
	(A)	Thiruppachethi	(B)	Melur		
	(C)	Kangeyam	(D)	Cholavandhan		
176.	All si	lkworms belong to the insect order				
	(A)	Hemiptera	(B)	Lepidoptera		
	(C)	Coleoptera	(D)	Hymenoptera		
177.	Whic	h one of the following implements is no	t used	for wet land operations?		
	(A)	Helical blade puddler	(B)	Green manure trampler		
	(C)	Cage wheel	(D)	Junior hoe		
178.	A de	vice for measuring percolation and	leachi	ng losses from a column of soil under		
	A device for measuring percolation and leaching losses from a column of soil under controlled conditions is known as					
	(A)	Infiltrometer	(B)	Evaporimeter		
	(C)	Psycrometer	Dr.	Lysimeter		
179.	Farm	management is a				
	(A)	Physical science	(B)	Biological science		
	(C)	Social science	(D)	None of the above		
180.	The value of seeds and plants, manures and fertilizers, insecticides, fungicides and irrigation charges are known as					
	(A)	Variable cost	(B)	Fixed cost		
	Jes"	Input cost	(D)	Machinery cost		

	(A)	Nationalized banks	(B)	Government of India		
	(C)	Reserve Bank of India	. Or	All the above		
182.	SLR	means				
	CAY	Statutory Liquidity Ratio				
	(B)	Standard Liquidity Ratio				
	(C)	Systamatic Lending Ratio				
	(D)	Subsidised Lending Rate				
183.	Value	Added Tax (VAT) was first	introduced in			
	(A)	Sri Lanka	(B)	Bangladesh		
	wor	France	(D)	India		
184.	Choos	se the correct answer.				
The minimum support price system for agricultural commodities was sta				al commodities was started in the year		
	(A)	1962	(B)	1963		
	(C)	1964	. Or	1965		
185.	The r	new name of Agricultural Pri	ces Commission	is		
	(A) Commission for farm costs and prices					
	(B)					
	(C)					
(D) Commission for Kisan costs and prices						
186. The agricultural sector contributed to our foreign exchange resources			exchange resources by			
	(A)	Earning foreign exchange through export				
	(B)	Conserving through import s	ubstitutions			
	Jes"	Both of (A) and (B)	191, 6			
-	(D)	None of the above				
ACF	AG		28			

181.

Regional rural banks are financed by

18	The p	rimary role of MANAGE is to		
	(A)	Develop management skills	(B)	Generate employment
	(C)	Promote entrepreneurship	(D)	Promote spiritual talent
188.	The t	oll free telephone number of the Kisa	n call ce	entre is
	(A)	1515	(B)	1551
	(C)	5115	(D)	5151
189.	The c	entral sector scheme women in agric	ulture w	as launched during
	(A)	Sixth five year plan	(B)	Seventh five year plan
	(C)	Eighth five year plan	(D)	Ninth five year plan
190.	A, B,	C's of journalism stands for		
	(A)	Accuracy, Brevity and Clarity		
	(B)	Attractive, Brief and Clear		
	(C)	Accuracy, Brief and Clarity		
	(D)	None of the above		
191.	Chair	rman of planning commission is		
	(A)	President	(B)	Appointed by President
	(65)	Prime Minister	(D)	Appointed by Prime Minister
199	VAT	is		
102.	(A)	Excise tax	(B)	Income tax
	(0)	Indirect sales tax	(D)	Direct additional tax
	(10)	mancet sales tax	(2)	
* * * * * * * * * * * * * * * * * * * *	D1		41	
193.		ting of succeeding crop before harves		
	(A)	Ratoon cropping	(B)	Mono cropping
	(C)	Sequence cropping	(10)	Relay cropping

194. Which one of the following is a competitive market?			t?	
	SAS	Perfect market	(B)	Primary market
	(C)	Capital market	(D)	Wholesale market
195.	In pu	re competitive market, the demand cu	rve is	slopping
	(A)	Downward	(B)	Upward
	Jes"	Straight to X-axis	(D)	Parallel to Y-axis
196.	Area	under cultivation in India is		
	SAT	143. 0 m. ha	(B)	179.5 m. ha
F	(C)	161.3 m. ha	(D)	185.2 m. ha
197.	Servi	ces of a lead bank extend up to		
	(A)	Taluk level	(B)	Block level
	Jer	District level	(D)	State level
198.	The in	nstrument used for measuring depth o	f wate	r table is known as
	(A)	Lysimeter	(B)	Odometer
	ver	Piezometer	(D)	Evaporimeter
199.	Whic	h of the following is the latest milky m	ushroo	om variety released in Tamil Nadu?
	(A)	MDU 2	(B)	CO 2
	ren	APK 2	(D)	PKM 2
200.	Grow	ing of coconut, black pepper and ginge	r simu	ltaneously in the same field is called
4	(A)	Relay cropping	(B)	Inter cropping
	(C)	Mixed cropping	(D)	Multistoreyed cropping

SPACE FOR ROUGH WORK

