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COMBINED COMPETITIVE (PRELIMINARY) EXAMINATION, 2010

Carial No	AGRICULTURE					
Serial No.	Code No. 01	A				

INSTRUCTIONS

- 1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC, IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C OR D** AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE RESPONSE SHEET.
- 3. You, have to enter your Roll Number on this
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- 4. This Booklet contains 120 items (questions). Each item comprises *four* responses (answers). You will select *one* response which you want to mark on the Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- 5. In case you find any discrepancy in this test booklet in any question(s) or the Responses, a written representation explaining the details of such alleged discrepancy, be submitted within three days, indicating the Question No(s) and the Test Booklet Series, in which the discrepancy is alleged. Representation not received within time shall not be entertained at all.
- 6. You have to mark all your responses ONLY on the separate Response Sheet provided. *See directions in the Response Sheet*.
- 7. All items carry equal marks. Attempt ALL items. Your total marks will depend only on the number of correct responses marked by you in the Response Sheet.
- 8. Before you proceed to mark in the Response Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Response Sheet as per instructions sent to you with your Admit Card and Instructions.
- 9. While writing Centre, Subject and Roll No. on the top of the Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 10. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Response Sheet. You are permitted to take away with you the Test Booklet.

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ROUGH WORK

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1.	India	an Agriculture is predominantly of:		
	(A)	Subsistence type	(B)	Commercial type
	(C)	Conventional type	(D)	Highly intensive type
2.	Soil	Science began with the theory of humus	s in:	
	(A)	1654	(B)	1809
	(C)	1906	(D)	1960
3.	First	field experiment started in:		
	(A)	Rothamsted Experiment Station, Engla	and	
	(B)	PAU, Ludhiana		
	(C)	TNAU, Coimbatore		
	(D)	GBPUAT, Pant Nagar		
4.	The	contribution of Agriculture to Indian Gl	OP is :	
	(A)	20.2%	(B)	25.5%
	(C)	18.5%	(D)	21.3%
5.	The	number of Agro Ecological Regions in	India	for resource planning at National level:
	(A)	15	(B)	20
	(C)	25	(D)	30
6.	The	stable food crop of Southern India is:		
	(A)	Wheat	(B)	Bajra
	(C)	Jowar	(D)	Rice
7.	Rice	belongs to the family:		
	(A)	Leguminaceae	(B)	Poaceae
	(C)	Malvaceae	(D)	Solanaceae
8.	The	botanical name of Oats is:		
	(A)	Oryza sativa	(B)	Avena sativa
	(C)	Secale cerale	(D)	Hordium vulgare
9.	Repo	etitive growing of the same crop in the s	ame l	and is called :
	(A)	Intercropping	(B)	Sequential Cropping
	(C)	Multiple Cropping	(D)	Monocroping

10.	Photo synthetically Active Ra	diation falls betweer	1:
	(A) $200 - 250 \mu m$	(B)	$300-400~\mu m$
	(C) $400 - 700 \mu m$	(D)	$> 700 \ \mu m$
11.	An alternate crop for sugar inc	dustry:	
	(A) Beet root	(B)	Sugar beet
	(C) Sweet sorghum	(D)	Sweet potato
12.	Kalyansona is a variety of:		
	(A) Wheat	(B)	Rye
	(C) Barley	(D)	Oat
13.	Dr. N.E. Borlaugh was respon	nsible for:	
	(A) Watershed Developmen	it (B)	Green Revolution
	(C) White Revolution	(D)	Integrated Farming System
14.	Sweet Corn is botanically cal	led as :	
	(A) Zea mays tunicata	(B)	Zea mays amylacea
	(C) Zea mays certain	(D)	Zea mays saccharata
15.	The following is called as "Ca	amel of Crop":	
	(A) Sorghum	(B)	Bajra
	(C) Maize	(D)	Rainfed rice
16.	The fibre from the following of	crop is termed as "F	abric of the Future":
	(A) Cotton	(B)	Jute
	(C) Agave	(D)	Hemp
17.	The inherent capacity of the so	oil to supply plant nu	utrient is:
	(A) Soil Productivity	(B)	Soil Fertility
	(C) Soil Profile	(D)	Soil Environment
18.	The soil particles ranging from	m 0.02 – 0.002 mm	in size is called as :
	(A) Coarse Sand	(B)	Fine Sand
	(C) Silt	(D)	Clay

19.	The organic acid produced during the decomposition of organic compounds:							
	(A)	Humic Acid	(B)	Sulphuric Acid				
	(C)	Nitric Acid	(D)	Hydro Chloric Acid				
20.	Man	uring increases the following composition	on of t	the soil air :				
	(A)	Nitrogen	(B)	Oxygen				
	(C)	Carbon dioxide	(D)	All the above				
21.	The	diameter of soil micropores ranges betv	veen:					
	(A)	$20-40~\mu m$	(B)	$40-60~\mu m$				
	(C)	$60 - 80 \ \mu m$	(D)	$2-20~\mu m$				
22.	The	following is a microflora responsible for	the sc	oil biological environment:				
	(A)	Bacteria	(B)	Moles				
	(C)	Protozoa	(D)	Nematodes				
23.	Con	version of amino acids to ammonium is	called	las:				
	(A)	Aminification	(B)	Ammonification				
	(C)	Nitrification	(D)	Hydrolysis				
24.	The	redox Potential of the soil is denoted as	:					
	(A)	%	(B)	Bars				
	(C)	Eh	(D)	dSm				
25.	The	criteria for essentiality of elements is giv	en by	:				
	(A)	N.E. Borlaugh	(B)	Buckman and Brady				
	(C)	Black	(D)	Arnon				
26.	The	nutrient required for the synthesis of AT	Έ:					
	(A)	N	(B)	P				
	(C)	K	(D)	Zn				
27.	Calc	ium nutrient is most needed for:						
	(A)	Rice	(B)	Maize				
	(C)	Groundnut	(D)	Sunflower				

28.	The	nutrient responsible for the formation of	chlor	ophyll:
	(A)	Fe	(B)	Zn
	(C)	Mn	(D)	Mg
29.	The	following is used for the preparation of	enrich	ned farm yard manure :
	(A)	Super phosphate	(B)	Urea
	(C)	Gypsum	(D)	Ferrous sulphate
30.	Whi	ch one of the following is a green leaf m	anure	?
	(A)	Sesbania aculeata	(B)	Glyricidia maculeata
	(C)	Crotalaria juncea	(D)	Sesbania speciosa
31.	Kare	anj is a common name of:		
	(A)	Pongamia glabra	(B)	Azadirachta indica
	(C)	Calotrpis gigantean	(D)	Tephrosia purpurea
32.	The	nutrient content of Zinc Sulphate is:		
	(A)	36%	(B)	42%
	(C)	21%	(D)	16%
33.	The	available Nitrogen in oil is estimated by	:	
	(A)	Walkley and Black Method	(B)	Olsen's method
	(C)	Ammonium Acetate Method	(D)	Alkaline Permanganate Method
34.	The	major fertiliser marketed in India :		
	(A)	DAP	(B)	SSP
	(C)	KCL	(D)	Urea
35.	Am	aterial used as soil amendment:		
	(A)	Lime	(B)	Urea
	(C)	Fish meal	(D)	Karanj cake
36.	Phot	tosynthesis can be studied under the pro	ocess	of:
	(A)	Entry of carbon dioxide	(B)	Photolysis
	(C)	Carbon dioxide reduction	(D)	All the above

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37.	The	following is a C ₄ plant:		
		Rice	(B)	Maize
	(C)	Cotton	(D)	Sunflower
38.	The	carrier concept theory of plant nutrition	wasf	Formulated by :
	(A)	Olsen	(B)	Brey
	(C)	Van den Honert	(D)	Donnen
39.	Vesi	cular Arbuscular Mycorrhiza (VAM) is	comn	nonly applied for :
	(A)	Perennials	(B)	Annuals
	(C)	Biennials	(D)	Hydrophonics
40.	A bi	ofertilser which can be used as dual cro	p is:	
		Green manure	(B)	Azolla
	(C)	VAM	(D)	Rhizhobium
41.	The	following is a slow release Nitrogenous	fertili	ser:
	(A)	CAN	(B)	Urea
	(C)	Ureaform	(D)	Anhydrous Ammonia
42.	Inter	rvienal chlorosis in leaves is caused by the	ne def	iciency of :
		Nitrogen	(B)	•
	` ′	Zinc	(D)	Magnesium
43.	Whi	ch of the following induces leaf and frui	t absci	ission?
	(A)	NAA	(B)	CCC
	(C)	IBA	(D)	ABA
44.	The	following is an auxin and used as herbic	cide at	higher doses:
	(A)	2, 4 – D	(B)	GA
	(C)	NAA	(D)	IBA
45.	Ema	asculation is done to devoid:		
	(A)	Flowers	(B)	Pollen
	` ′	Gynaecium	` ′	Fruits

46.	A commonly found parasitic weed of sugarcane:						
	(A)	Orabanche sp	(B)	Cuscuta sp			
	(C)	Striga sp	(D)	Loranthus sp			
47.	Effic	ciency and effectiveness of conventional	l breed	ding can be improved by:			
	(A)	Selection	(B)	Mutation			
	(C)	CMS	(D)	Molecular Markers			
48.	Impo	ortant hybrid of maize:					
	(A)	Vijay	(B)	Hi Starch			
	(C)	Sona	(D)	CO 5			
49.	Fath	er of Hybrid Rice :					
	(A)	Prof. Yuvan Long Ping	(B)	Dr. N. E. Borlaugh			
	(C)	Dr. M. S. Swaminathan	(D)	Dr. G. S. Kush			
50.	Gold	len rice is enriched with:					
	(A)	Vitamin B1	(B)	Vitamin D			
	(C)	Vitamin C	(D)	Vitamin A			
51.	Majo	or type of wheat cultivated in India:					
	(A)	Triticum diurum	(B)	Triticum aestivum			
	(C)	Triticum sphaerococum	(D)	All the above			
52.	Prote	ein content in pulses ranging from:					
	(A)	10 - 15%	(B)	15 - 20%			
	(C)	20 – 25%	(D)	25 – 30%			
53.	A va	llue added product of Soybean:					
	(A)	Macroni	(B)	Candy			
	(C)	Butter	(D)	Tofu			
54.	Ane	dible oil with rich of linoleic fatty acid:					
	(A)	Sunfloweroil	(B)	Ground nut oil			
	(C)	Gingelly oil	(D)	Coconut oil			

55.	ction as antitranspirant :			
	(A)	Film forming	(B)	Stomatal closing
	(C)	Reflectance	(D)	Growth retardant
56.	Whi	ch weed is classified as sedge?		
	(A)	Panicum repens	(B)	Cyperus rotundus
	(C)	Digeria arvensis	(D)	Chloris barbata
57.	The	safe grain moisture content for storage	of rice	: :
	(A)	14%	(B)	16%
	(C)	18%	(D)	20%
58.	Whe	en the growth is complete and photosyn	thates	s are no longer translocated, it is called:
	(A)	Senescence	(B)	Maturity
	(C)	Physiological maturity	(D)	Harvest maturity
59.	Logo	s of nutrients beyond root zone along w	ith wo	toris called:
J.J.	(A)	· · · · · · · · · · · · · · · · · · ·	(B)	Immobilisation
	` ′	Runoff	` ′	Leaching
	(C)	Kunon	(D)	Leaching
60.	The	rmopile organisms thrive at a temperatu	re of:	
	(A)	> 40 °C	(B)	20 − 30 °C
	(C)	$10-20^{\circ}\mathrm{C}$	(D)	< 10 °C
61.	Card	linal temperature denotes :		
	(A)	Maximum temperature	(B)	Minimum temperature
	(C)	Optimum temperature	(D)	All the above
62.	Assı	mann psychrometer is used for observin	g:	
	(A)	Relative Humidity	(B)	Sunshine
	(C)	Maximum temperature	(D)	Minimum temperature
63.	The	botanical name of Apple:		
	(A)	Malus sylvestris	(B)	Pyrus communis
	(C)	Prunus salicina	(D)	Ananas sativus

64.	Whi	ch one is a non edible oil cake?				
	(A)	Coconut	(B)	Ground nut		
	(C)	Castor	(D)	Sesame		
65.	Whi	ch of the crop is self pollinated?				
	(A)	Millets	(B)	Onion		
	(C)	Rice	(D)	Cotton		
66.	Four	ndation seed is obtained from:				
	(A)	Nucleus seed	(B)	Breeder seed		
	(C)	Registered seed	(D)	Certified seed		
67.	The	following is used in biological measure	of soil	conservation:		
	(A)	Neem	(B)	Agave		
	(C)	Casuarina	(D)	Glyricidia		
68.	Сис	<i>umis sativus</i> is the botanical name of:				
	(A)	Ashgourd	(B)	Bottlegourd		
	(C)	Cucumber	(D)	Sweet pepper		
69.	Kari	munda is a variety of :				
	(A)	Pepper	(B)	Ginger		
	(C)	Turmeric	(D)	Onion		
70.	The ecosystem of the following State favours cultivation of spices:					
	(A)	Jammu & Kashmir	(B)	Maharashtra		
	(C)	Assam	(D)	Kerala		
71.	Acc	ommonly used chemical for rhizome rot	:			
	(A)	Carbofuran	(B)	Bordeaux Mixture		
	(C)	Mancozeb	(D)	Dimethoate		
72.	Whi	ch of the following is used as standard f	or Vai	nilla ?		
	(A)	Coconut	(B)	Arecaunut		
	(C)	Cocoa	(D)	Glyricidia		
73.	Skif	fing is a pruning method followed in:				
	(A)	Tea	(B)	Coffee		
	(C)	Rubber	(D)	Cocoa		

74.	The	annual yield of rubber in South India is	:	
	(A)	500 kg/ha	(B)	375 kg/ha
	(C)	750 kg/ha	(D)	1000 kg/ha
75.	Cym	abopogon winterianus is the botanical	name	of:
	(A)	Citronella	(B)	Lemon grass
	(C)	Palmarosa	(D)	Patcholi
76.	Follo	owing is an export variety of Mango:		
	(A)	Neelam	(B)	Bangalora
	(C)	Alphonsa	(D)	Mulgoa
77.	Papa	aya seeds are viable upto:		
	(A)	1-2 months	(B)	3-4 months
	(C)	One year	(D)	> one year
78.	Nun	nber of trees accommodated in one acr	e of la	and with a spacing of 20×20 ft. :
	(A)	72 trees	(B)	89 trees
	(C)	109 trees	(D)	132 trees
79.	Chlo	protic symptom beginning in older leave	s beca	ause of the deficiency of:
	(A)	Nitrogen	(B)	Phosphorous
	(C)	Iron	(D)	Manganese
80.	Irish	Peach is a variety of:		
	(A)	Mango	(B)	Apple
	(C)	Pear	(D)	Plum
81.	Scur	rvy can be prevented by intake of:		
	(A)	Vitamin A	(B)	Vitamin B1
	(C)	Vitamin C	(D)	Vitamin D
82.	Post	harvest losses in fruits and vegetables a	accou	nt to:
	(A)	5 – 10%	(B)	10 - 30%
	(C)	> 30%	(D)	< 5%
83.	Brov	wn Plant Hopper is a pest of:		
	(A)	Sorghum	(B)	Wheat
	(C)	Rice	(D)	Maize

84.	Psei	udomonas fluorescens is used in:		
	(A)	INM	(B)	IWM
	(C)	IPM	(D)	SSNM
85.	Chil	o infuscatellus in sugarcane is commo	nlv cal	lled as :
	(A)	v G	(B)	
	` ′	Top shoot borer	` ′	White grub
	` ′	•	` ′	Č
86.	Woo	olly aphid (<i>Ceratovacuna lanigera</i>) is a	com	mon pest found in:
	(A)	Apple	(B)	Sugarcane
	(C)	Mango	(D)	Tomato
87.	Acid	I delinting in cotton is done by:		
	(A)	Conc. Sulphuric Acid	(B)	Conc. Nitric Acid
	(C)	Conc. Hydrochloric acid	(D)	Combination of all above
88.	Soil	application of carbofuran 3G in cotton	contro	ols:
	(A)	Whitefly	(B)	Mites
	(C)	Cutworms	(D)	Stem weevil
89.	Roty	elenchulus reniformis is :		
	(A)	Lesion nematode	(B)	Lance nematode
	(C)	Reniform nematode	(D)	Rootknot nematode
90.	App	lication of the following is done in bioc	ontrol	of plant pests and diseases:
		Rhizoctonia bataticola	(B)	
	(C)	Pempherulus affinis	(D)	-
91.	Tric	hogramma chilonis is called as :		
<i>)</i> 1.		Larval parasite	(B)	Pupal parasite
		Adult parasite	(D)	Egg parasite
	(-)		()	661
92.	Whi	ch of the following is used in the contro	l of pe	
	(A)	11 0	(B)	Mixed cropping
	(C)	Trap croping	(D)	Multiple cropping
93.	The	accurate quantification of pesticide resi	dues i	s determined by:
	(A)	GC	(B)	HPLC
	(C)	TLC	(D)	GLC

94.	The water used for one ha in Ultra low volume sprayer is:				
	(A) $2-3$ litres	(B)	3 – 4 litres		
	(C) $4-5$ litres	(D)	< one litre		
95.	Uniform distribution of spray fluid is determine	ned b	y:		
	(A) Nozzle	(B)	Pumps		
	(C) Tanks	(D)	Pressure		
96.	Which sprayer is used for spraying on tall tr	ees lil	ke coconut?		
	(A) Knapsack sprayer	(B)	Power sprayer		
	(C) Rocker sprayer	(D)	Boom sprayer		
97.	Poultry management in farm is:				
	(A) Competitive enterprise	(B)	Complementary enterprise		
	(C) Supplementary enterprise	(D)	Individual enterprise		
98.	Enterprise budgeting is used to define:				
	(A) Total Income	(B)	Total Expenditure		
	(C) Returns above defined costs	(D)	Benefit Cost ratio		
99.	The cost of using a resource in one way is resource in its next best, most profitable alte		return that could be earned from using that		
	(A) Fixed cost	(B)	Opportunity cost		
	(C) Variable cost	(D)	Total cost		
100.	The costs vary according to the size of the e	nterpi	rise and the amount of inputs used:		
	(A) Total cost	_	Fixed cost		
	(C) Variable cost	(D)	Opportunity cost		
101.	The value lost by an item over its useful life:				
	(A) Depreciation	(B)	Loss		
	(C) Variable cost	(D)	Cash flow		
102.	A method of making a comparative study of in a part of the business organisation is:	the co	ost-and-return analysis resulting from a change		
	(A) Enterprise budgeting	(B)	Partial budgeting		
	(C) Total budgeting	(D)	Farm planning		

103.	103. The National Centre for Agricultural Economics and Policy Research (NCAP) is situated at:					
	(A) New Delhi	(B)	Hyderabad			
	(C) Bangalore	(D)	Mumbai			
104.	04. Night blindness disease is associated with the deficiency of:					
	(A) Vitamin A	(B)	Vitamin B			
	(C) Vitamin C	(D)	Vitamin D			
105.	Lycopene is present in:					
	(A) Sweet potato	(B)	Tomato			
	(C) Black berry	(D)	Rasp berry			
106. A length of growing period (LGP) supports double cropping is:						
	(A) > 210 days	(B)	90 – 150 days			
	(C) $< 90 \text{ days}$	(D)	150 – 210 days			
107.	 7. An Agro Organization and Professional Society at the International Level: (A) Fertilizer Association of India (FAI) (B) International Food Policy Research Institute (IFPRI) (C) Agricultural Technology Marketing Agency (ATMA) (D) Agriculture and Processed Food Products Export Development Authority 					
108.	India is the largest producer of:					
	(A) Rice	(B)	Coconut			
	(C) Wheat	(D)	Sugar			
109.	Bt seeds are popular in:					
	(A) Cotton	(B)	Vegetables			
	(C) Rice	(D)	Maize			
110.	110. National Agricultural Extension Project (NAEP) was supported by:					
	(A) NABARD	(B)	World Bank			
	(C) FAO	(D)	ICRISAT			
111.	. Establishment of "Ryot Samparka Kendras" or "Farmers' Contact Centres" was initiated by Government of :					
	(A) Karnataka	(B)	Maharashtra			
	(C) Kerala	(D)	Tamil Nadu			

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112.	e-Cl	noupal is an extension system by:				
	(A)	ITC	(B)	Coffee Board		
	(C)	Tea Board	(D)	Spices Board		
113.	Which of the following is considered as Public Extension?					
	(A)	Extension by NGO	(B)	Extension by State Departments		
	(C)	Extension by private institution	(D)	Extension by Mass media		
114.	Community Development Programme in India was inaugurated in:					
	(A)	1952	(B)	1957		
	(C)	1947	(D)	1950		
115.	. The Intensive Agricultural District Programme, launched in five districts by the central governmen					
	in:					
	(A)	1960	(B)	1958		
	(C)	1962	(D)	1957		
116.	A water intensive crop:					
	(A)	Cotton	(B)	Sugarcane		
	(C)	Maize	(D)	Sorghum		
117.	Nip	ping is a practice in:				
	(A)	Sugarcane	(B)	Cotton		
	(C)	Tobacco	(D)	Forage crops		
118.	. Rice prefers Nitrogen in the form of:					
	(A)	Nitrate	(B)	Amide		
	(C)	Ammoniacal	(D)	Nitrous		
119.	Decomposition of organic matter in rice soils generate:					
	(A)	Ethane	(B)	Methane		
	(C)	Propane	(D)	Butane		
120.	20. Which of the following location of tea has more of export potential?					
	(A)	Darjeeling	(B)	Coorg		
	(C)	Nilgiris	(D)	Munnar		

ROUGH WORK