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CON	ABINED COMPETITIVE (PRELIMINA	ARY) EXAMINATION, 2013
Serial No.	AGRICULTUR	Ε
	Code No. 01	
Time Allowed : Tu	wo Hours	Maximum Marks : 300
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one respon	et contains 120 items (questions). Each item com se which you want to mark on the Response Sho ponse, mark the response which you consider the em.	eet. In case you feel that there is more than one
representat the Question	u find any discrepancy in this test booklet in ion explaining the details of such alleged discrep on No(s) and the Test Booklet Series, in which ithin time shall not be entertained at all.	pancy, be submitted within three days, indicating
	o mark all your responses ONLY on the separate	e Response Sheet provided. See directions in the
	arry equal marks. Attempt ALL items. Your total marked by you in the Response Sheet.	marks will depend only on the number of correct
	proceed to mark in the Response Sheet the resp in some particulars in the Response Sheet as per tions.	
	ing Centre, Subject and Roll No. on the top of ALL POINT PEN".	f the Response Sheet in appropriate boxes use
concluded,	have completed filling in all your responses or you should hand over to the Invigilator only the he Test Booklet.	_
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ROUGH WORK

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1.	The rice varieties grown in India belong to :(A) Indica(C) Javanica		Japonica Asiatica
2.	The rice inflorescence is known as :(A) Panicle(C) Ear		Spikeleb Siliqua
3.	For transplanting one hectare area of rice how muc (A) 100 m ² (C) 1000 m ²	(B)	a is sufficient for nursery raising ? 500 m ² 1500 m ²
4.	Tungro virus of rice is transmitted by :(A) Stem borer(C) Leaf roller		Green leaf hopper White fly
5.	Dwarf wheat (Mexican) is introduced in India by :(A) Dr. N.E. Borlaug(C) Dr. B.P. Pal	` ´	Dr. M.S. Swaminathan Dr. C. Subramaniam
6.	The normal seed rate of wheat is : (A) 50 kg/ha (C) 100 kg/ha		75 kg/ha 125 kg/ha
7.	 Triticala is a cross between : (A) Wheat × oat (C) Oat × barley 	. ,	Wheat \times barley Wheat \times Rye
8.	Cytoplasmic male sterility is used in :(A) Hybrid seed production(C) Varietal development		Composite seed production Biotechnology
9.	Most serious disease of Sugarcane is :(A) Red stripe(C) Red rot	` ´	Wilt Smut
10.	How many selts are required to plant one hectare of (A) 30,000-35,000 (C) 40,000-45,000	(B)	arcane ? 35,000-40,000 50,000-55,000
11.	In which of the following crops azolla is used as bid (A) Rice (C) Sunflower	(B)	izer ? Sorghum Maize

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	(C) K	(D)	Zn		
	(A) N	(B)	Р		
21.	Excess uptake of which element is known as Luxur	y cor	nsumption ?		
	(C) India	(U)	SouthAmerica		
	(A) China (C) India	. ,	Africa South America		
20.	The place of origin of Potato is :	(\mathbf{D})	A frien		
20					
	(C) Trichoderma viridae	(D)	Sclerotium rolfsii		
	(Å) Penicillium notatum	(B)	Bacillus subtilis		
19.	Which one of the following microbial agents is bein agent?	g con	nmercially exploited as biocontrol		
	· · · · · · · · · · · · · · · · · · ·	、 /			
	(C) Dr. V.L. Chopra	` ´	Dr. M.V. Rao		
10.	(A) Dr. A.S. Paroda	-	Dr. M.S. Swaminathan		
18	The term "Evergreen Revolution" has been given b	v:			
	(C) Hypoepigeal	(D)	Epihypogeal		
	(A) Epigeal		Hypogeal		
17.	The type of germination in mungbean is known as :				
	(C) Modified leaf	(D)	Modified flower		
2.	(A) Modified Stem	(B)	Modified Root		
16.	Potato is a :				
	(C) Seed germination	(D)	Seed quality		
	(A) Seed purity(C) Seed communication	. ,	Seed viability		
15.	Tetrazolium test is used to determine :	(\mathbf{D})	Condivisition		
1 -					
	(C) Soluble in alkali and insoluble in acid	(D)	Insoluble in both		
	(A) Soluble in alkali and acid	(B)	Insoluble in alkali and soluble in acid		
14.	Humic acid is a fraction of humus, which is :				
	(c) recomme ouse suturation		rmon exemunge cupacity		
	(A) CEC(C) Percentage base saturation	. ,	Anion-exchange capacity		
15.	The capacity of a soil to resist appreciable change i (A) CEC	-	value is called : Buffering capacity		
10					
	(C) Paddy-potato-greengram	(D)	Soyabean-wheat-greengram		
	(A) Maize-toria wheat	(B)	Paddy-wheat-Maize		
12.	Which one of the following crop rotation is the best	for m	naintaining soil fertility ?		

22.	Phosphate containing mineral is :(A) Dolomite(C) Marble		Aptatile Pyrites
23.	Black cotton soil is rich in :(A) Montmorillonite(C) Illite	` '	Kaolinite Chlorite
24.	Which form of nitrogen is absorbed by paddy under (A) N_2 (C) NO_2 ion	(B)	ter logged conditions ? NH4 ion Nitrate ion
25.	Which soil has the highest cation exchange capacity(A) Loam(C) Sandy Loam	(B)	Loamy Sand Clay Loam
26.	Which one of the following causes pungency of mu(A) Phenols(C) Glucosinolates	(B)	l oil ? Amino acids Erucic acid
27.	Texture of the soil can be changed by :(A) Use of fertilizers(C) Use of manures	. ,	Use of tillage practices None of these
28.	Khaira disease in rice is caused due to :(A) Fungal infection(C) Zinc deficiency	` '	Bacterial infection Boran deficiency
29.	Which one of the following crops has the highest co(A) Cotton(C) Oil seeds	(B)	nption of pesticides ? Paddy Pulses
30.	Rancidity in Sunflower oil is caused by :(A) Reduction(C) Esterification	` ´	Oxidation Nitrification
31.	Arkel, Bonneville and Early December are the imp(A) Lentil(C) Gram	(B)	d varieties of : Pea Safflower

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32.	Weight of one cotton bale is equal to : (A) 160 kg (C) 178 kg		170 kg 190 kg
33.	Berseem a fodder crop was introduced in India du	ring 1	904 from which country ?
001	(A) South Africa	-	England
	(C) Egypt		USA
34.	The ideal temperature of tuberization in potato is :		
	(A) 14°C	(B)	18°C
	(C) 21°C	(D)	34℃
25			
35.	Generally soil pH increases during :		7.1
	(A) Summer	. ,	Zaid
	(C) Winter	(D)	Post monsoon season
36.	Which one of the following elements is considered	to be	an immobile element in the plants?
	(A) Ca		Mg
	(C) N	(D)	•
		. ,	
37.	'P' content in DAP fertilizer is :		
	(A) 20%	(B)	36%
	(C) 46%	(D)	50%
38.	Which of the following soils have poor physical con		
	(A) Saline	. ,	Saline-alkali
	(C) Sodic	(D)	None
30	Vertical section of a soil is known as :		
57.	(A) Horizones	(B)	Solum
	(C) A soil	` ´	Profile
		(D)	Tome
40.	Which county has largest deposits of 'K'?		
	(A) India	(B)	USA
	(C) China	(D)	Canada
41.	'Pungency' in chilli is due to presence of :		
	(A) Amids	(B)	Sulphur
	(C) Capsaicin	(D)	Boran

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42.	"Prabhani Kranti" is a popular variety of :(A) Brinjal(C) Chilli	. ,	Potato Okra
43.	Gladiolus is propagated by which method ?(A) True seed(C) Stem cutting	. ,	Bulbs Roots
44.	Which one is a stem vegetable ?(A) Carrot(C) Radish		Sweet potato Knol-knol
45.	Yellow coloured fruits and vegetables are rich sour(A) Vitamin E(C) Vitamin C	(B)	: Vitamin A Vitamin B
46.	Vegetables are canned in : (A) Brine (C) Syrup	` '	Distilled water None of these
47.	Wind breaks are planted in Orchards towards :(A) East-South(C) North-East	. ,	North-West South-West
48.	National Horticultural Board was established in : (A) 1976 (C) 1984	. ,	1987 1986
49.	'Santa rosa' is a popular variety of :(A) Plum(C) Cashew nut	` ´	Pear Walnut
50.	Most common training system of apple in India is :(A) Open centre(C) Spindle bush system	` ´	Modified Leader Leader
51.	Dwarfing Root stock in mango is :(A) Totapuri Red Small(C) Alphonso	. ,	Dashehari Olour
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52.	Best time for propagation of apple is :(A) DecJan.(C) July-Aug.	` '	FebMarch April-May
53.	Litchi is commercially propagated by :(A) Veneer grafting(C) Air layering		Tip layering March grafting
54.	Which one of the following is a rich source of fat ?(A) Almond(C) Walnut	. ,	Cashew nut Mango
55.	Which portion of the plant is considered free from v(A) Embryo(C) Cambium	(B)	es ? Xylum Meristem
56.	The crop richest in protein is :(A) Sunflower(C) Peanut		Soyabean Phaseolus
57.	Optimum seed rate (g/ha) of Cauliflower is : (A) 300-400 (C) 700-800	` '	500-700 800-900
58.	Leaf curl virus of chilli is transmitted by :(A) White fly(C) Honey bees		Aphid Jassds
59.	Kasmir beauty and Golden heart are the varieties o(A) Radish(C) Beet root	f: (B) (D)	Carrot Turnip
60.	Garlic contains which organo sulphur compound ? (A) Alliin (C) Allinage	. ,	Allicin Diallyl disulphide
61.	 White grub beetles lay eggs: (A) On the underside of the leaf (B) On the plant stem at the level of ground (C) Within the floral parts (D) Singly in sandy soil upto the depth of 10 cm 		

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62.	Yellow mosaic virus disease of moongbean is trans	smitte	d by :
	(A) Bemisia tabaci	(B)	Aphis crassivova
	(C) Nephotettix viruscens	(D)	Aphis gossypii
63.	Pink boll worm is a serious pest of :		
	(A) Mustard	(B)	Cotton
	(C) Gram	(D)	Pea
64.	Pheromone trap attracts :		
	(A) Female bugs	(B)	Catterpillars
	(C) Female moths	(D)	Male moths
65.	Which of the following is not a bio-pesticide?		
	(A) Bioneem	(B)	Biolep
	(C) Carbaryl	(D)	Dipel
66.	Which is a carbamate pesticide ?		
	(A) Aldicarb	(B)	Heptachlor
	(C) Malathion	(D)	Endosulphau
67.	The worker honey bee is :		
	(A) Drone	(B)	Sterile male
	(C) Sterile female	(D)	None
68.	Following is an example of Bt transgenic cotton :		
	(A) Jayadhar	(B)	Vaxalaxmi
	(C) NH-44	(D)	Bollgaurd
69.	Use of light trap for the management of pest is an e	examp	ble of :
	(A) Cultural control	(B)	Legal method of control
	(C) Biological control	(D)	Mechanical method of control
70.	The dwelling place of termite is also known as :		
	(A) Canal	(B)	Tunnel
	(C) Mound	(D)	Cave
71.	The insecticide which is used in mosquito mat is :		
	(A) Endosulphan	(B)	Diazinon
	(C) Malathion	(D)	Allethrin

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72.	Munga silkworm belongs to the family : (A) Curculionidae (C) Saturniidae	. ,	Formicidae None
73.	A disease not prevalent throughout the country, con(A) Endemic(C) Sporadic	(B)	nt or world is known as : Epidemic Pandemic
74.	Who is considered father of plant virology ?(A) Beijerinch(C) WM Stanley		AE Mayer Diener
75.	Loose smut of wheat is :(A) Externally seed borne(C) Both (A) and (B)	. ,	Internally seed borne None of the above
76.	Tea rust is caused by : (A) MLO (C) Fungus	` '	Virus Algae
77.	Panama wilt is a disease of :(A) Bamboo(C) Pineapple		Mango Banana
78.	Which of the following is not a disease of apple ?(A) Bird eye(C) Downey mildew		Powdery Mildew Bunchy top
79.	Most widely used fungicide for smut fungi is : (A) Vitavax (C) Dithane M-45	` '	Plantvax Sulfex
80.	Race specific resistance is called :(A) Vertical Resistance(C) Adult plant resistance	` '	Horizontal resistance Apparent resistance
81.	Which fungicide is used against downey mildew ?(A) Karathane(C) Oxathius	. ,	Metalaxyl Bavistin

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82.	Rosette of apple is the deficiency symptom of :(A) Fe(C) Mo	(B) (D)	
83.	The end product of glycolysis is :(A) Glucose(C) Pyruvic acid	` ´	Sucrose None
84.	 World Standard Day is celebrated on : (A) 14th January (C) 14th November 	~ /	14 th October 14 th December
85.	National income generated by agriculture is calcul(A) Income method(C) Expenditure method	(B)	by using : Output method Both (A) and (B)
86.	'Giffen' goods refer to :(A) Stock of goods(C) Lack of goods		Inferior goods Superior goods
87.	Government of India signed WTO agreement in :(A) 1981(C) 1995	` ´	1994 1997
88.	The first KVK was established at :(A) Nagpur(C) Ludhiana		Pondichery Jammu Tawi
89.	The classical gene-for-gene hypothesis was proposed(A) Flov, 1956(C) Robinson, 1969	(B)	y : Painte, 1951 Hayes, 1947
90.	'A' form of DNA has :(A) 10 base pairs/turn(C) 11 base pairs/turn		12 base pairs/turn 9.33 base pairs/turn
91.	'Tetrazolin test' is used for :(A) Testing seed viability(C) Estimation of amino acid in seed		Membrane permeability test of seed Phospholipid determination of seed
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92. Which one of the following crops do not belong to often allogamous species group? (B) Sorghum (A) Tomato (C) Cotton (D) Tobacco 93. The influence of more than one trait by a single gene in called : (B) Polytene (A) Polygene (D) Phototroph (C) Pleiotropy 94. The pair of characters used in Pea by Mendel during his experiments were : (A) Six (B) Eight (C) Nine (D) Seven 95. Which one of the following are nonsense codons? (A) UUA, AUG, UUU (B) UAC, UUG, UGC (C) UAA, UAG, UGA (D) UTA, UTG, UGT 96. The term gene was coined by : (A) Mendel (B) Shull (C) Bateson (D) Johannsen 97. The chromosomes are most condensed at : (A) Prophase (B) Anaphase (D) Telophase (C) Metaphase 98. Seed multiplication ratio in Paddy is : (A) 1:100 (B) 1:40 (C) 1:80 (D) 1:10 99. Land races are: (A) Advanced Strains (B) Local varieties (C) Hybrid varieties (D) All of these 100. In-bred lines in maize are maintained by : (A) Self pollination (B) Cross pollination (C) Open pollination (D) Sib pollination 101. The science that considers soil as a medium for plant growth is known as : (A) Pedology (B) Geology (D) Soil Science (C) Edaphology

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102. The nutrient that plant directly absorbs from air is :(A) C(C) Cl	(B) N(D) S
103. Most part of nitrogen is taken by plants in the follow	wing form :
(A) NO_2'	(B) NO'_{3}
(C) NH_4^+	(D) N
104. The elements which readily form metallic bonds ar	e known as :
(A) Chalcophile	(B) Lithophile
(C) Atmosphile	(D) Siderophile
105. Main constituent of sandstone is :	
(A) CaO	(B) Al_2O_3
(C) SiO ₂	(D) H_2O
106. Which one is the macronutrient?	
(A) Fe	(B) B
(C) S	(D) Cu
107. Which one is the expanding type mineral?	
(A) Pyrite	(B) Dolomite
(C) Gypsum	(D) Smectite
108. In general, in India Organic matter content in soil in	ncreases from :
(A) East to West	(B) West to East
(C) South to North	(D) North to South
109. Which one of the following is most suitable for its u	use in agriculture?
(A) FYM	(B) Straw
(C) Sawdust	(D) Dead bodies of the microorganisms
110. In summer widest cracks are seen in :	
(A) Vertisol	(B) Mollisol
(C) Alfisol	(D) Ultisol
111. Correct sequence of the minerals in order to increa	se in resistance to weathering is :
(A) Dolomite, Gypsum, Gibsite, Calcite	(B) Calcite, Dolomite, Gypsum, Gibsite
(C) Gibsite, Dolomite, Calcite, Gypsum	(D) Gypsum, Calcite, Dolomite, Gibsite

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112. Rate of decomposition is fastest for :	
(A) Cellulose	(B) Sugar
(C) Hemicellulose	(D) Fats
113. Which is the most fertile soil?	
(A) Mollisol	(B) Ultisol
(C) Alfisol	(D) Inceptisol
114. Potential Evapotranspiration is measured by :	
(A) Floating pan	(B) Rain gauge
(C) Stevenson's screen	(D) Lysimeter
115. If the root/shoot ratio is greater, there will be more	e:
(A) absorption	(B) transpiration
(C) reflection	(D) transmission
116. Headquarters of 'All India Soil and Land Use Surv	
(A) Mumbai	(B) Delhi
(C) Kolkata	(D) Nagpur
117. Soil profile is defined as :	
(A) Vertical section upto a depth of 30 cm	
(B) Vertical section upto a depth of 1 meter	
(C) Vertical section up to Regolith	
(D) Vertical section up to parent material	
118. Group of soils developed from same parent materia	l in similar climate and vegetation but that differ
in relief are called :	(D) Cotono
(A) Toposequence	(B) Catena(D) Podzols
(C) Climosequence	(D) Podzois
119. Physical process of soil formation is :	
(A) Oxidation	(B) Nitrification
(C) Hydrolysis	(D) Transportation
	-
120. 'E' horizon is characteristic of :	
(A) Laterites	(B) Podzols
(C) Chernozems	(D) Chestnuts

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ROUGH WORK

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