## DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

**Test Booklet Series** 

T. B. C. : AAO - 1/22



## TEST BOOKLET

SI. No.

ASSISTANT AGRICULTURE OFFICER
PAPER – I

13565

Time Allowed: 2 Hours

Maximum Marks: 100

## : INSTRUCTIONS TO CANDIDATES :

- 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 OF THE SAME SERIES ISSUED TO YOU.
- 2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
- 3. You have to enter your Roll No. on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- 4. YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY, WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.
- 5. This Test Booklet contains 100 items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose ONLY ONE response (answer) for each item (question).
- You have to mark (darken) all your responses (answers) ONLY on the separate Answer Sheet provided, by using BALL POINT PEN (BLUE OR BLACK). See instructions in the Answer Sheet.
- 7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. There shall be negative marking for wrong answers (responses) with a deduction of 0.25 marks for every wrong answer (response).
- 8. Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
- 9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the Answer Sheet issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the Test Booklet, after completion of the examination, for your reference.
- Sheets for rough work are appended in the Test Booklet at the end.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

HM - 1A/12

(Turn over)

1.	The Rice Inflorescence is known as: 5.	The Inflorescence of sugarcane is
	(A) Panicle	known as:
	(B) Spikelets	(A) Arrow
	(C) Ear	(B) Panicle
	(D) Siliqua	(C) Capitulum
2.	The Kresek phase occurs in early	(D) Racemose
	stage of plant growth of rice in :	Most common herbicides used for
	(A) BLB	weed control in sugarcane is / are:
	(B) Bacterial leaf streak	(A) Simazine
	(C) Tungrovirus	(B) Atrazine
	(D) False smut	(C) Alachlor
	E W 15	(D) All of these
3.	Wheat is originated in : 7.	Triticale is the cross between:
	(A) South America	(A) Wheat × Rye
	(B) Central Asia	(B) Oat × Barley
	(C) South Eastern Asia	(C) Wheat × Barley
	(D) Europe	(D) None of these
١.	First irrigation to the wheat crop should 8.	The fruit of rapeseed and mustard is
	be given at :	known as :
	(A) CRI stage	(A) Pod
	(B) Tillering stage	(B) Grain
	(C) Jointing stage	(C) Siliqua
	(D) Dough stage	(D) Caryopsis
M	-1A/12 (2)	
	-1A/12 (2)	Contd.

9.	The Criteria of essentiality of nutrients		(C) Efficient use of water
	in plant was given by :		(D) Less fertilizer requirement
	(A) DJ Nicholas		(M/high is the major machine of
	(B) Arnon and Stout	14.	Which is the main problem of
	(C) JS Kanwar		sustainable agriculture?
	(D) Rajendra Prasad		(A) Lack of benefits
10	Potato is the :		(B) International rules and regulations
10.			(C) Market acceptance
	(A) Modified stem		(D) All of these
	(B) Modified root	15.	Stem nodulation occurs in green
	(C) Modified leaf	*	manure crop of :
	(D) Modified flower		(A) Sesbania aculeata
11.	The type of germination in mung bean		(B) Sesbania cannabina
	is known as:		(C) Crotolaria juncea
	(A) Epigeal		(D) Aeschynomene afraspera
	(B) Hypogeal		
	(C) Hypoepigeal	16.	Crop logging is used in:
	(D) Epihypogeal		(A) Sugarcane
12.	Sesamum belongs to the family:		(B) Sugarbeet
	(A) Chenopodiaceae		(C) Maize
	(B) Papilionaceae		(D) Tea
	(C) Leguminosae	17.	In which crop the use of BGA as a
	(D) Pedaliaceae		biofertilizer, will be most useful?
13	What is the importance of vertical		(A) Maize
	farming in sustainable agriculture?		(B) Potato
	(A) Year around production		(C) Rice
	(B) Less land requirement		(D) Sugarcane
HM		3)	(Turn over)
			(Tamovor)
		5 6	

18.	National center of organic farming i	n	22.	Organic carbon is a measure of:
	India is located in:			(A) Available N in soil
	(A) Ghaziabad			(B) Available P in soil
	(B) Hyderabad			(C) Available K in soil
	(C) Kochi			(D) Available Mg in soil
	(D) Pune		23.	Which one of the following is not
19.	An example of companion cropping	9		allowed in organic cultivation?
	is:			(A) Sewage sludge
	(A) Sugarcane + Potato			(B) Crop rotation
	(B) Potato + Mustard			(C) Using black soil
	(C) Potato + Radish			(D) Monoculture
	(D) Wheat + Mustard			1 12 12
20.	Arrowing is known as:		24.	The ratio between gross and net
	(A) Tillering of sugarcane			cropped area is called an index of :
	(B) Emergence of inflorescence in	1		(A) Cropping intensity
	sugarcane			(B) Multiple cropping
	(C) Arrow like shape of sugarcane			(C) High intensity cropping
	(D) None of these			(D) None of these
21.	LEISA is related to :	2	25.	Chipsona is a variety of :
	(A) Organic farming			(A) Tapioca
	(B) Inorganic farming			(B) Sweet potato
	(C) Natural farming			(C) Elephant foot
	(D) All of these			(D) Potato
НМ -	- 1A/12	(4)		Contd.
			*	

26.	Zero-till seed drill is used for sowing		(C) Simazine	
	of:		(D) Metribuzin	
	(A) Wheat in maize - wheat cropping	30.	Soil sickness is caused by:	
	system		(A) Maize	
	(B) Wheat in Mung – wheat cropping	I	(B) Jowar	
	system		(C) Linseed	
	(C) Wheat in rice – wheat cropping		(D) Both (B) and (C)	
	system	31	The optimum seed rate for sunflower	
	(D) None of these	51.	is (kg / ha):	
27.	The most concentrated fertilizer used		(A) 8 – 10	
	for nutrient supply is:		(B) 10 – 15	
	(A) Urea		(C) 18 – 20	
	(B) DAP		(D) 30 – 35	
	(C) Anhydrous ammonia	22	garrier of the series of the series	
	(D) SSP	32.	The ideal temperature for tuberization in potato is:	Ĭ
28.	Which gas is released from paddy		(A) 14° C	
	fields?		(B) 18° C	
	(A) CH <sub>4</sub>		(C) 21° C	
	(B) H <sub>2</sub> S		(D) 34° C	
	(C) CO <sub>2</sub>			
	(D) NH <sub>3</sub>	33.	in wheat was reported first time from	
20	Most common herbicide used in		(A) Uganda	
20.	maize is :		(B) Pakistan	
	(A) Atrazine		(C) America	
	(D) Alachlar		(D) Ukraine	
		(5)		
HM	I – 1A/12	(5)	(Turn over)	1

	most in agriculture soils?		variety of mango?
			variety of mango ?
	(A) Cyclosilicates		(A) Arka Aruna
	(B) Phyliosilicates		(B) Arka Puneet
	(C) Sorosilicates		(C) Arka Anmol
	(D) Nesosilicates		(D) Arka Hans
35.	Sorghum crop is considered as camel	39	Pruning in ber is done :
	crop because of :		(A) During rainy season
	(A) Deep root system		(P) During winter
	(B) Resistant to drought	•	(B) During winter
	(C) Shallow root system		(C) During spring
	(D) Nutrient Exhaustiveness		(D) During summer
	3-75 64	40	. Fruits are blanched before canning
36.	The stem above the ground in banana		property and the section
	is known as :		at:
	(A) Rhizome		(A) 80° C
	(B) Pseudostem		(B) 90° C
	(C) Sucker		(C) 100° C
	(D) None of these		(D) None of these
37.	Which of the following fruits are	41	. National Horticulture Board was
	botanically called as "Hesperidium"?		established in :
	(A) Jackfruit		(A) 1976
	(B) Orange		(B) 1984
	(C) Litchi		(C) 1987
	(D) Apple		(D) 1990
НМ	- 1A/12	(6)	Contd.
			*

HM	I – 1A/12	(7)	(Turn over)
	(D) Magnesium		(D) Heliothis armigera
	(C) Amides		(C) Tetranychus spp
	(B) Sulphur		(B) Amrasca biguttula biguttula
	(A) Capsaicin		(A) Earias vitella
	of:		to:
45.	"Pungency" in chilli is due to presence	e 49.	Shoot and fruit borer of Okara belongs
	(D) Cowpea		(D) None of these
			(C) Capsanthin
	(C) Chilli		(B) Capsaicin
	(A) Okra (B) Cabbage		(A) Lycopine
44.	Varsha upahar is a variety of:		pigment:
44	Vareha linahar is a variety of	48.	The red color is in tomato is due to
	(D) 100 – 102° C		(D) Garlic
	(C) 90 – 92° C		(C) Onion
	(B) 80 – 82° C		(B) Cauliflower
	(A) 70 – 72° C		(A) Cabbage
	fruits and vegetables is:		in: A
43.	Exhausting temperature of cannet	d 47.	Buttoning is a physiological disorder
	(D) Ber		(D) 500
	(C) Banana		(C) 400
	(B) Apple		(B) 300
	(A) Pineapple		(A) 200
	status of :		cabbage is:
42.	D-leaf is a best indicator of nutrier	nt 46.	Optimum seed rate (g / ha) of

50.	Cluster bean contains mucilaginous	3	(B) 1.5
	substance is:		(C) 2.5
	(A) Mannogalacton		(D) 3.5
	(B) Asparagine	<i>E E</i>	Which of the statement given helew
	(C) Glutamine	55.	Which of the statement given below
	(D) Galacturonic acid		is / are correct?
51.	Roses are commonly propagated by	5	(A) Marigold flower last longer if the
	(A) 'T' or shield budding		field is irrigated before plucking
			of flower.
	(B) Grafting		(B) Carnation flowers should always
	(C) Stem cutting		be transported pre – cooled.
	(D) Seeds		(C) Both (A) and (B)
52.	Gladiolus belongs to :		(D) Neither (A) nor (B)
	(A) Rosaceae	56.	The Downey mildew of bajra is caused
	(B) Compositae		by:
	(C) Solanaceae		(A) Sclerospora sorghi
	(D) Iridaceae		
53.	Gladiolus is generally propagated by	:	(B) Sclerospora sacchari
	(A) Tuber		(C) S. graminicola
	(B) Corm		(D) Perenospora parasitica
		57.	Loose smut of wheat is:
	(C) Rhizome		(A) Internally seed borne
	(D) Roots		(B) Externally seed borne
54.	Optimum seed rate for marigold is	3	
	(kg / ha):		(C) Both (A) and (B)
	(A) 0.5		(D) Not clearly defined
НМ	- 1A/12	(8)	Contd.
	*//		1,000

58.	The Karnal bunt of wheat first time	e 62	. Bunchy top of Banana was first
	reported in Karnal by Mitra in :		observed in :
	(A) 1929		(A) Pune
	(B) 1931		(B) Rome
	(C) 1941		(C) Fiji
	(D) 1951		(D) None of these
59.	In rust cycle the cereal host is infected	63.	Mango malformation can be reduced
	by:		by spraying of :
	(A) Uredospores		(A) GA
	(B) Aeciospores		(B) IBA
	(C) Teliospores		(C) NAA
	(D) Basidiospores		(D) ABA
60.	The rust of linseed and flax can	64.	The first identified bacterial disease
	be completely controlled by spray	,	of plant 'fire blight of apple' was
	of:		discovered by:
	(A) Borax		(A) Adolf Mayer
	(B) Dithane M-45		(B) E. F. Smith
	(C) Vitavax		(C) M. K. Patel
	(D) Agrosan GN		(D) T. J. Burill
61	Wilt of pigeon pea is caused by :	65.	Panama disease of banana is
	(A) Fusarium udum	140	prevented by :
	(B) Gibberella indica		(A) Spraying zinc carrier
			(B) Spraying copper fungicide
	(C) Rhizopus nigricans		(C) Application of lime to the soil
	(D) Aspergillus flavus		(D) Providing an adequate irrigation
НМ	– 1A/12	(9)	(Turn over)

66. Pink bollworm is serious pest of:	70. The pest which attach both in field and
(A) Mustard	storage of pulses is:
(B) Cotton	(A) Pulse beetle
(C) Gram	(B) Gram pod borer
	(C) Red gram pod fly
(D) Ladies finger	(D) Pod borer
67. Following is an example of Bt	71. Grubs which feeds on the inner content
transgenic cotton:	of seed in pulses belongs to:
(A) Jayadhar	(A) Aphis craccivora
(B) Varalaxmi	(B) Callosobrunchus chinesis
(C) NH-44	(C) Agrotis ipsilon
(D) Bollguard	(D) Aceria cajani
68. IPM relies heavily on :	72. Eriophid mite (Aceria cajani) belongs
(A) Economic threshold level	to family:
(B) Total loss of crops	(A) Bruchidae
(C) Resistant pest	(B) Aphididae
Who is a second	(C) Eriophydae
(D) Susceptible pest	(D) Noctuidae
69. The noctuid borer on ragi is:	73. Bt cabbage is developed against :
(A) Sesamia inferens	(A) Diamond black moth
(B) Chilo partellus	(B) Cabbage butterflies
(C) Chilo suppresalis	(C) Aphid
(D) Scirpophaga nivella	(D) Painted bug
HM – 1A/12	(10) Contd.

	74.	Bacillus thuringiensis wa	s 78.	. The process of killing pupa without
0.5		discovered by:	(_ 10)	changing the cocoon shell layer is
		(A) S. Isiwata		known as :
		(B) Berliner		(A) Stiffling
		(C) Flacher		(B) Denier
		(D) Frisch		(C) Dupion
	75.	Juvenile Hormone (JH) is a trepene	9	(D) Hatching
		secreted by:	70	In honey bees, the queen substance
		(A) Carpora cardiaca		is secreted by:
		(B) Carpora allata		(A) Mandibular glands
		(C) Cuticle		(B) Acid glands
		(D) Accessory glands		(C) Pharyngeal glands
		(D) Accessory glarius		(D) Wax glands
	76.	The term "third generation pesticides"	80.	Spreading decline of citrus is caused
		is given for:		by:
		(A) Juvenile hormone		(A) Tylenchulus semipeneterans
		(B) Moulting hormone		(B) Radopholus citrophilus
		(C) Brain hormone		(C) Criconemoides citri
		(D) Anti juvenile hormone		(D) Criconema civellae
	77.	Silk gland is a modified part of labial	81.	Cauliflower disease of strawberry is
		gland and in origin.		caused by:
		(A) Ectodermal		(A) Nematode
		(B) Mesodermal		(B) Bacteria-
		(C) Epidermal .		(C) Both (A) and (B)
		(D) Endodermal		(D) Abiotic factor
	НМ	- 1A/12	(11)	(Turn over)

- 82. Infection of banana plants by burrowing nematode Radopholus similis predisposes the plants to infection of: (A) Pentalonia nigronervosa (B) Fusarium oxysporum f. sp. cubense
  - (C) Cercospora musae
  - (D) Banana Bunchy top virus
- 83. Trap crop for Meloidogyne spp. is:
  - (A) Cereals
  - (B) Millets
  - (C) Marigold
  - (D) All of these
- 84. Which one of the following nematodes attack above-ground plant parts?
  - (A) Anguina
  - (B) Aphelenchoides
  - (C) Ditylenchus
  - (D) All of these
- 85. Which one of the following nematodes is an ectoparasite?
  - . (A) Radopholus
  - (B) Xiphinema

- (C) Globodera
- (D) Meloidogyne
- 86. Major pest of silkworm:
  - (A) Wasps
  - (B) Uzifly
  - (C) Nysolyns
  - (D) All of these
- 87. The silk of silkworm is a:
  - (A) Separate filament
  - (B) Continuous filament
  - (C) Several filament
  - (D) Discrete filament
- 88. Which is correct?
  - (A) Tassar silkworm : Antheraea mylitta
  - (B) Oak tassar silkworm : Antheraea
  - (C) Muga resham: Philosamia ricini
  - (D) Eri resham: Antheraea proyeli
- 89. Rainfall intensity is generally higher on:
  - (A) Northern hemisphere
  - (B) Southern hemisphere
  - (C) Near the equator
  - (D) None of these

Contd.

HM - 1A/12

o. Stevenson screen is related to:	<ol><li>94. For ripening of rice, temperature</li></ol>
(A) Bacteriology	should lie between:
(B) Biotechnology	(A) 21 – 37°C
(C) Agrometeorology	(B) 26.5 – 29.5°C
(D) Remote Sensing	(C) 20 – 25°C
91. How many agroclimatic zones are	(D) 15 – 20°C
categorized in India?	95. Temperature required for proper grain
(A) 20	filling of wheat is:
(B) 18	(A) 20 – 25°C
(C) 14	(B) 20 – 23°C
(D) 15	(C) 23 – 25°C
92. Who is related with the classification	(D) 16 – 20°C
of climate?	96. Sapwood is rich in :
(A) De Condole	(A) Starch
(B) Koppen	(B) Cellulose
(C) Troll	(C) Resins
(D) All of these	(D) Gums
93. The National Remote Sensing Agency	97. Protected Forest declared under
is situated at :	Forest Act of :
(A) Bangalore	(A) 1927
(B) Hyderabad	(B) 1928
(C) Jaisalmer	(C) 1925
(D) Patna	(D) 2001
$HM - 1A/12 \tag{1}$	(Turn over)

(A) Hard wood(B) Soft wood(C) Semi-hard wood

(D) All of these

- 99. Red rust in Eucalyptus is caused by:
  - (A) Bacteria

- (B) Algae
- (C) Virus
- (D) MLO

100. Felling cycle of Bamboo is:

- (A) 3-4 years
  - (B) 4 − 5 years
  - (C) 5-6 years
  - (D) 5-10 years

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## SPACE FOR ROUGH WORK

HM - 1A12

(15)

AAO - 1/22