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

**Test Booklet Series** 

T. B. C.: ASC - 2/20



## **TEST BOOKLET**

(ASSISTANT SOIL CONSERVATION OFFICER) 22513
PAPER – II SI. No.

Time Allowed : 1½ Hours

Maximum Marks : 100

## : INSTRUCTIONS TO CANDIDATES :

- 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 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).
- 6. 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 will be no negative marking for wrong response (answer).
- 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.
- 10. Sheets for rough work are appended in the Test Booklet at the end.

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1.	Aman rice is sown in the month of:	<b>5</b> .	Ammonium Sulphate Fertilizer is
	(A) April – May		preferred for nitrogen application in
	(B) June-July		ground nut because it also provides:
	(C) November – December	_	(A) Calcium
	(D) May-June		(B) Magnesium
2.	A short duration crop is sown in between the two rows of main crops		(C) Sulphur (D) Boron
	is termed as :	6.	Nitrogen is taken up by the plants in
	(A) Cash Crop		the form of:
	(B) Catch Crop		(A) Chloride
	(C) Companion Crop		(B) Oxide
	(D) Ephemeral		(C) Nitrate
3.	Crop production and Animal		(D) Sulphate
	Husbandry collectively is known as:	7.	The deficiency symptoms on lower
	(A) Mixed Cropping		leaves are seen due to :
	(B) Relay Cropping		(A) Nitrogen
	(C) Mixed Farming		(B) Phosphorus
	(D) None of these		(C) Potassium
4.	How much area of nursery is needed		(D) Zinc
	for sowing of paddy crop in one hectare?		Which one of the following nutrient is
			more required for berseem crop?
	(A) 1/5 of total area		(A) Nitrogen
	(B) 1/10 of total area	·	(B) Phosphorus
	(C) 1/8 of total area		(C) Potash
	(D) 1/16 of total area		(D) Boron
TV	-2A/6 (	(2)	Contd.

			-	
9.	Acidic Soil can be reclaimed by the		(C)	Denitrification
	application of:		(D)	Volatilization
-	(A) CaCO <sub>3</sub>	13.	App	lication of nitrogen in pulses at
	(B) H <sub>2</sub> SO <sub>4</sub>	. •		ime of sowing is known as :
	(C) CaSO <sub>4</sub> .2H <sub>2</sub> O		(A)	Additional dose
	(D) HNO <sub>3</sub>		(B)	Starter dose
10.	Addition of following material makes	٠	(C)	Synergistic dose
	it possible to take good crop in sodic		(D)	Basic dose
	soils:		How	much kg N <sub>2</sub> / ha / year can be
	(A) FYM	14.		i by Azolla ?
	(B) Green Manuring		(A)	80 to 100
	(C) Gypsum		(B)	30 to 40
	(D) Vermicompost		(C)	
11.	Ammonia is lost through volatilization		(D)	100 to 120
	in significant amount from :	15.	Wh	at is Crop Rotation?
	(A) Alkaline Soils			Growing more than one crop at
٠	(B) Acidic Soils		(A)	a time
	(C) Saline Soils		(D)	Growing of crops one after
	(D) Sodic Soils		(B)	another to maintain soil fertility
12.	An aerobic environmental condition		(C)	
12.	of paddy soil is responsible for gaseous losses of fertilizer nitrogen :		(0)	in between the rows of two
				main crop
	(A) Ammonification		<b>(D)</b>	
			(D)	Growing of crops together in strips
	(B) Nitrification			อนเหอ

(3)

(Turn over)

16.	Which is the most important source	20.	Phalaris minor weed is associated	
	of Irrigation in India?		with:	
	(A) Canal		(A) Gram Crop	
-	(B) Pond		(B) Wheat Crop	
	(C) Tubewell		(C) Paddy Crop	
	(D) Charsa		(D) Soybean Crop	
17.	When only two irrigations are	21.	Basal application of fertilizers	
	available, the wheat crop should be		means:	
	irrigated at?		(A) Application of fertilizers at the	
	(A) CRI and Tillering stage		time of sowing	
	(B) CRI and Flowering stage		(B) Application of fertilizers in two	
	(C) CRI and Milking stage		split doses	
	(D) CRI and late joining stage		(C) Application of fertilizers in	
18.	Which crop is considered as King of		Standing Crop	
	the fodder crop?		(D) Application of fertilizers many	
	(A) Lucern		times	
	(B) Berseem	22.	Bio fertilizer is a :	
	(C) Oat			
	(D) Sudan grass		(A) Mixture of organic matter and	
	(D) Oddan grass		micro organisms	
19.	Which of the following operation is		(B) Mixture of inorganic fertilizers	
	not a primary practice?		and micro organisms	
	(A) Ploughing		(C) Culture having the desired	
	(B) Planking		strain of micro organisms	
	(C) Harrowing		(D) Decomposed organic matter	
	(D) Weeding		enriched with bacteria	

23. Biological Nitrogen fixation is:	27. Tree species which give fuel, fodder,
(A) Aerobic and anaerobic	food, fruit and fiber are called :
(B) Denitrification	(A) Fodder Trees
(C) Leaching ·	(B) Multipurpose Trees
(D) Removal	(C) Agroforestry Trees
24. Capillary movement of water in soil is complemented by:	
(A) Stem Elongation	28. A tree which completely becomes
(B) Root Extension	leafless in rainy season is :
(C) Leaf Orientation	(A) Faiderbia albida
(D) Fruit formation	(B) Prosopis juliflora
25. Topping in Tobacco Crop mea	ins a (C) Leucaena leucocephala
process of:	(D) Acacia nilotica
(A) Removal of buds in the a leaves	29. Which is the scented portion in
(B) Removal of leaves	Sandal wood ?
(C) Removal of terminal buds	
(D) Burning of leaves	(B) Seed
26. Diameter of breast height (db	(C) Soft Wood h) of
tree is measured at :	(D) Heart Wood
(A) $4\frac{1}{2}$ feet above ground leve	30. Tree age can be measured by:
(B) Merchantable height of the	e tree (A) Altimeter
(C) 1.37 meter from the gre	ound (B) Increment borer
level	(C) Hygrometer
(D) Just below the canopy of	
tree	

31.	Head Quarter of ICRAF is located		(C) Rattan
	at:		(D) Dargan
	(A) Dehradun	36.	In Alley Cropping, the row to row
	(B) Jhansi	•	spacing varies from :
	(C) Nairobi		(A) 1-4 m
. •	(D) Europe		(B) 4-8 m
32.	Global Warming is due to:		(C) 2-4 m
-	(A) Deforestation		(D) 4-6 m
•	(B) Mixed farming	<b>37</b> .	. Home garden is found extensively in :
	(C) Crop diversity	<b>0</b> 1.	(A) Low rainfall areas
	(D) Agroforestry		(B) Medium rainfall areas
33.	Which of the following tree species		(C) High rainfall areas
	is not nitrogen fixing?  (A) Acacia nilotica		(D) Arid areas
		38.	The mature trees removed in one
	(B) Dalbergia Sissoo (C) Azadirachta Indica		operation is called :
	(D) Leucaena Leucocephala		(A) Shelter Wood System
34.			(B) Clear Felling System
	(A) Every year		(C) Improvement Felling
	(B) Once in two years		(D) Coppice with Reserve System
	(C) Once in five years	39.	. Katha is extracted from which part o
	(D) None of these		Khair trees?
35.	The criteria of essentiality of nutrients		(A) Fruit
٠	is given by:		(B) Heart Wood
-	(A) Arnon		(C) Seed
	(B) Tandon		(D) Roots
	'-2A/6 (6)		Conto

40.	For cooking 1 kg of food, how much	44.	World Forestry Day is celebrated on
	quantity of fuel wood is required?		date:
	(A) 1 kg		(A) 5th June
•	(B) 1.2 kg		(B) 15th June
	(C) 1.5 kg		(C) 22nd March
,	(D) 1.7 kg		(D) 25th September
41.	An operation is carried out for the benefit of a forest crop at any stage between seedling to maturity, is	45.	Growing of trees with the crop is called:  (A) Agri-silviculture-System
	called:		(B) Agri-horticulture System
	(A) Cultural Operation		(C) Agro-silvopastoral System
	(B) Plant Protection		(D) Agro-horti-silviculture System
	(C) Regeneration		
	(D) Tending Operations	46.	Silvipastoral System means :
42.	Which is the most important physical		(A) Growing of trees with pasture
	characteristics of wood?		(B) Growing of trees with crop
	(A) Strength (B) Grain		(C) Growing of grasses with fruit trees
	(C) Specific gravity		(D) Growing of pasture + crop
	(D) Elasticity	47.	The ideal potting mixer used in filling
43.	First Inspector General of Forest of India was:		polybags for raising seedlings contains ratio of Soil: Sand: FYM:
	(A) K. F. S. King		(A) 1:3:1
	(B) H. G. Champion		(B) 1:2:1
	(C) R. S. Troup		(C) 1:1:1
	(D) Dietrich Brandis		(D) 2:1:1
TV	- 2A/6 (	7)	(Turn over)

- 48. Which of the following is an example of Silvipastoral System?
  - (A) Hardwickkia binate + Cenchrus

    Ciliaris + Goat
  - (B) Eurblica officinalis + Cowpea
  - (Ç) Gmelina arborea + Dicanthium annulatum
  - (D) Acaica nilotica + Paddy
- 49. Raising of trees on bunds or farm boundaries is known as:
  - (A) Social Forestry
  - (B) Community Forestry
  - (C) Farm Forestry
  - (D) Extension Forestry
- 50. Central Agroforestry Research Institute (CAFRI) is located at:
  - (A) Hyderabad
  - (B) New Delhi
  - (C) Jhansi
  - (D) Solan
- 51. The putting of plant propagules in the field to grow as crop plants is called:
  - (A) Sowing
  - (B) Gap filling
  - (C) Planting
  - (D) Transplanting

- 52. Which of the following method of sowing gives rapid and uniform germination with good seedling vigour?
  - (A) Broadcasting
  - (B) Dibbling
  - (C) Drilling
  - (D) Line sowing
- 53. For the planting of turmeric crop, which of the following vegetative material is used?
  - (A) Tubers
  - (B) Bunches
  - (C) Setts
  - (D) Rhizomes
- 54. Maximum rainfall occurs on the:
  - (A) Leeward Side
  - (B) East-West Direction
  - (C) North-South Direction
  - (D) Windward Side
- 55. The optimum range of temperature required for the grain formation in Wheat crop is:
  - (A) 8 to 10° C
  - (B) 10 to 15°C
  - (C) 12 to 26° C
  - (D) 5 to 10°C

56. Which of the statement is not related (B) Carbondioxide to deep ploughing? (C) Chlorofluoro carbons Favours break up of clods (D) NO<sub>3</sub> Kills the weeds (B) Absorption of which of the following 61. (C) Increases soil erosion gas reduces the level of chlorophyll (D) Incorporates organic residues pigments in cell and affects Which of the following implement is photosynthesis? not used for ploughing? (A) CO, Country Plough (A) (B) SO<sub>2</sub> Mould Board Plough (B) (C) NO (C) Ridge Plough NH (D) (D) Disc Plough 62. 58. Find the odd one out - In Sigmoid Growth Curve, there are three well marked regions: (A) Lag phase (B) Economic phase

(C)

(D)

Log phase

(B) Afforestation

(C) Provision

drainage

(D) Deforestation

Methane

(A)

TV - 2A/6

to greenhouse gases?

Steady state phase

59. Which one of the following operation

is not helpful in controlling floods?

of

adequate

(9)

Construction of dams

60. Which of the following are not related

- Quantity, Quality, Intensity and Duration are the important parameters of:
  - (A) Soil Temperature
  - (B) Rain Fall
  - (C) Solar Radiation
  - (D) Soil Moisture
- 63. The science of identification and classification of earth surface features using electromagnetic radiation as a medium of interaction refers to:
  - (A) Weather Forecasting
  - (B) **Remote Sensing**
  - (C) Geographic Information System

(Tum over)

**Global Positioning System** (D)

- 64. The process of destruction of soil aggregates by mechanical force in soils with a moisture content exceeding the moisture equivalent:
  - (A) Puddling
  - (B) Ploughing
  - (C) Mulching
  - (D) Intercultivating
- 65. In urea, the nitrogen is available in:
  - (A) Nitrate form
  - (B) Sulphate form
  - (C) Amide form
  - (D) Ammonium form
- 66. The maximum Anion Exchange Capacity is found in:
  - (A) Kaolinite mineral
  - (B) Montmorillonite mineral
  - (C) Granite mineral
  - (D) Basalt mineral
- 67. Castor belongs to the family:
  - (A) Leguminoceae
  - (B) Euphorbiaceae
  - (C) Cruciferae
  - (D) Compositae
- 68. The removal of wings from the seeds is called:
  - (A) Deheading
  - (B) Dewinging

- (C) Washing
- (D) Cleaning
- 69. The removal of seeds in case of flashy fruits is called:
  - (A) Depulping
  - (B) Extraction
  - (C) Soaking
  - (D) Winnowing
- 70. The decomposition of litter (Leafy matter) is faster in case of :
  - (A) Narrow leaves
  - (B) Pointed leaves
  - (C) Broad leaves
  - (D) Wax-coated leaves
- 71. Which of the statement is not related to deep ploughing?
  - (A) Favors break-up of clots
  - (B) Kills the weeds
  - (C) Increases soil erosion
  - (D) Incorporates organic residues
- 72. The natural geo-hydrological unit whereby all streams are draining into a common point is called:
  - (A) Water conservation
  - (B) Water shed management
  - (C) Soil conservation
  - (D) Dug wells

- 73. The science which deals with water, concerning with distribution, physical and chemical reaction and in relation to the life of the earth:
  - (A) Precipitation
  - (B) Flooding
  - (C) Hydrology
  - (D) Agrostology
- 74. The removal of thin uniform layer of soil from the land surface by the action of run-off water is called:
  - (A) Splash erosion
  - (B) Sheet erosion
  - (C) Rill erosion
  - (D) Gully erosion
- 75. The making of small depressions of about 10-15 cm depth around the vegetation before sowing of crop is called:
  - (A) Bunding
  - (B) Bench terracing
  - (C) Basin listing
  - (D) Graded buns
- 76. The weeds which normally start and complete their life-cycle on the land is called:
  - (A) Alien weeds

- (B) Obligate weeds
- (C) Parasitic weeds
- (D) Terrestrial weeds
- 77. A weeds that has become an integral part of a crop-ecoystem is called:
  - (A) Facultative weeds
  - (B) Satellite weeds
  - (C) Associated weeds
  - (D) Noxious weeds
- 78. The direct or indirect harmful effect by one plant on another through the production of inhibitory substances is called:
  - (A) Allelopathy
  - (B) Competition
  - (C) Stimulation
  - (D) Interaction
- 79. The living organisms (bio-agent)
  used to limit the infestation of
  Parthenium Hysterophorus weed is:
  - (A) Cactoblastic Cactorum
  - (B) Crylophagous Salvinia
  - (C) Zygograma bicolorata
  - (D) Delias hypareta

(Tum over)

- 80. The process by which a herbicide passes from one system into another system is called:
  - (A) Adsorption
  - (B) Formulation
  - (C) Incorporation
  - (D) Absorption
- 81. The Lucknow-49 is a variety of:
  - (A) Mango
  - (B) Guava
  - (C) Amla
  - (D) Ber
- 82. Growing of two or more crops on the same field per year, where the succeeding crop is planted after the preceding crop has been harvested is called:
  - (A) Multiple cropping
  - (B) Relay cropping
  - (C) Sequential cropping
  - (D) Ratoon cropping
- 83. The quantity of water required by a crop in a given period of time for their normal growth under field condition is called:
  - (A) Water requirement
  - (B) Irrigation requirement
  - (C) Consumptive use of water
  - (D) Imigation frequency

- 84. When fertilizers are applied close to the seed or plant which is adopted when relatively small quantity of fertilizer has to be applied for widely spaced crop is called:
  - (A) Deep placement
  - (B) Localized placement
  - (C) Drill placement
  - (D) Band placement
- 85. When the fertilizer solutions of low concentrations prepared for soaking seeds or dipping roots of seedlings for early establishment is called:
  - (A) Foliar application
  - (B) Soil application
  - (C) Starter solutions
  - (D) Fertigation
- 86. The moisture of the soil at which plants can no longer obtain enough moisture to meet the transpiration requirement and water is held by soil so tightly as thin film around soil particles is called:
  - (A) Field Capacity
  - (B) Available moisture
  - (C) Permanent Wilting Point
  - (D) Water-holding capacity

87.	The downward movement of water	91.	Cutting of green branches and
	through saturated soil when water is		leaves of a tree for feedig the cattle
	under pressure and tention is less		is known as :
	than $\frac{1}{2}$ atmosphere is called:		(A) Lopping
	(A) Percolation		(B) Pruning
	(B) Water intake		(C) Pollarding
	(C) Permeability		(D) Thinning
	(D) Seepage	92.	In the pellet method of sowing, the
			homogeneous paste is prepared in
88.	The scientist who has given the	:	the ratio:
	concept of Law of Minimum:		(A) 3:1:1:1
	(A) Mitscherlich (1909)		(B) 1:2:1:3
	(B) Justus Von Liebig (1840)		(C) 2:1:1:2
	(C) Blackman (1005)		(D) 4:1:2:1
	(D) Willcox (1942)	93.	The optimum depth of sowing of
89.	Plant that grows on extremely dry soil		grasses in the rangeland should be:
	are classified under:		(A) 3 to 5 cm
•	(A) Thalophytes		(B) 5 to 7 cm
٠	(B) Hydrophytes		(C) 0.5 to 1 cm
-	(C) Xerophytes		(D) 2 to 4 cm
•	(D) Hydroponics	94.	Which method is used for the entire
-		• .	plant removal of scattered scrubs or
90.	The C: N ratio of humus is:		tree seedlings of small diameter?
	(A) 20:1		(A) Grubbing
	(B) 100:1		(B) Girdling
	(C) 10:1		(C) Chopping
	(D) 400:1	,	(D) Mowing
	•		

(13)

TV-2A/6

(Tum over)

- 95. The reasons of enormous increase in the livestock population of the country is:
  - (A) Availability of green fodder
  - (B) Social attitude of people
  - (C) Multiple uses of animals
  - (D) Large number of family members
- 96. The characteristics of tree species for shelter belt is:
  - (A) Nitrogen fixing
  - (B) Fast growing
  - (C) Profused branching
  - (D) Deep rooted
- 97. Mulching is useful for:
  - (A) Conserving moisture
  - (B) Reducing crop growth
  - (C) Nutrient depletion
  - (D) High evaporation

- 98. The growth of seedling destroyed by animals is due to:
  - (A) Browsing
  - (B) Grazing
  - (C) Trampling
  - (D) Up-rooting
- 99. Which is not the component of agroforestry?
  - (A) Land
  - (B) Animal
  - (C) Tree
  - (D) Water
- 100. The tree species suitable for biodrainage in the water logged areas :
  - (A) Eucalyptus
  - (B) Ailanthus excelsa
  - (C) Albizia procera
  - (D) Gmelina arborea

## **SPACE FOR ROUGH WORK**



