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OPSC
ASCO
Previous Year Paper
(Agriculture - II)
09 Feb, 2025

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T.B.C. : ASCO-I(ii)-24/25

Test Booklet Series

A

TEST BOOKLET

Sl. No. 17057

ASSISTANT SOIL CONSERVATION OFFICER (AGRICULTURE) (PAPER-II)

K-41

Time Allowed : 1 & ½ hrs.

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. IMMEDIATELY AFTER 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 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 along side. **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 ***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.
8. Before you proceed to mark (darken) in the Answer Sheet the responses to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses 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. Forestry intended to meet the requirement of local people and is by the people, of the people and for the people

(A) Agro Forestry

(B) Farm Forestry

(C) Social Forestry

(D) Urban Forestry

2. After care of forest trees is known as

(A) Tending

(B) Brashing

(C) Pollarding

(D) Lopping

3. Water binding mechanism of drought tolerance is present in

(A) Guava

(B) Ber

(C) Fig

(D) Aonla

4. Cutting back the grown-up trees to ground level is called as

(A) Coppicing

(B) Pollarding

(C) Lopping

(D) Brashing

5. In tree-based system, complimentary interactions between legumes and non-legumes are

(A) Allelopathy

(B) Annidation

(C) Competition

(D) Inhibition

6. Suitable agroforesty system for arable lands is

(A) Silvipastoral system

(B) Agri-horticultural system

(C) Hortipastoral System

(D) TIMFIB

7. The type of tree crop interactions where the outputs (yields) are independent in

(A) Complementary

(B) Supplementary

(C) Competition

(D) Synergistic

8. National Waste Land Development Board was created during the regime of

(A) Indira Gandhi

(B) Rajiv Gandhi

(C) P. V. Narasimha Rao

(D) Manmohan Singh

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9. Growing black pepper as creeper on coconut is considered as

(A) Intercropping

(B) Cover cropping

(C) Companion crops

(D) Catch crops

10. The species which is frost and drought hardy and mostly used for soil conservation is

(A) Soapnut

(B) Tamarind

(C) Sesbania

(D) Tendu

11. Kernel powder used in textile and jute industry is

(A) Soapnut

(B) Tamarind

(C) Sesbania

(D) Tendu

12. The PH of forest soil is generally

(A) Basic

(B) Neutral

(C) Acidic

(D) None of these

13. Semi-Arid Zones have moisture index of

(A) 0 to –33.3

(B) –33.3 to –66.6

(C) –66.6 to –100

(D) –100 to –120

14. Dryland soils are usually deficient in

(A) Nitrogen

(B) Phosphorous

(C) Potassium

(D) Sulphur

15. Bench terracing is practiced in areas having a slope of

(A) 3 to 5%

(B) 5 to 10%

(C) 10 to 15%

(D) 16 to 33%

16. Soil crust mostly occurs in

(A) Black soils

(B) Red soils

(C) Alluvial soils

(D) Loamy soils

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17. If the velocity of flowing water is doubled, its eroding power increases by

(A) 2 times

(B) 3 times

(C) 4 times

(D) 5 times

18. Implement used for forming: soil mulch is

(A) Blade harrow

(B) Country plough

(C) Disc plough

(D) Mould board plough

19. The first stage of movement of soil particles in wind erosion is

(A) Saltation

(B) Suspension

(C) Surface creep

(D) None

20. Delay in the onset of monsoon in dryland agriculture calls for

(A) Thinning

(B) Ratooning

(C) Intercultivation

(D) Crop substitution

21. Mulch which is more effective but costly is

(A) Straw mulch

(B) Plastic mulch

(C) Stubble mulch

(D) Dust mulch

22. CRIDA is located in

(A) New Delhi

(B) Bhubaneswar

(C) Hyderabad

(D) Nagpur

23. Growing of crops in shelter belt areas is beneficial when grown on

(A) Windward side

(B) Leeward side

(C) Between tree rows

(D) None

24. Soil crust mainly affects

(A) Germination

(B) Vegetative growth

(C) Root growth

(D) Shoot growth

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25. The main cropping season for black soils receiving high rainfall is

(A) Pre-monsoon

(B) Post-monsoon

(C) Summer

(D) Winter

26. Uniform removal of soil in thin layers from soil surfaces is known as

(A) Gully erosion

(B) Rill erosion

(C) Sheet erosion

(D) Land slide erosion

27. Universal soil loss equation was given by

(A) Tamhane

(B) I. Arnon

(C) U.S. Gupta

(D) Wishmeir

28. Which of the following is used as chemical mulch

(A) PMA

(B) CCC

(C) Hexadeconal

(D) Atrazine

29. The ideal rabi crop for raising in saline-alkaline soil is

(A) Sorghum

(B) Safflower

(C) Mustard

(D) Wheat

30. Shallow red soils are suitable for dryland crops in

(A) Kharif

(B) Rabi

(C) Winter

(D) Summer

31. Uncontrolled gully erosion results in

(A) Rills

(B) Ravines

(C) Breaches

(D) Landslides

32. Thinning of plant population has significant influence in

(A) Drought year

(B) Calendar year

(C) Normal year

(D) Wet year

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33. The minimum size of farm pond suggested for one hectare of catchment area

(A) 150 m^3

(B) 250 m^3

(C) 350 m^3

(D) 450 m^3

34. The land over which rain falls and flows out of the area through a single outlet is called

(A) Ayacut

(B) Catchment

(C) Pond

(D) Watershed

35. Split application of nitrogen is recommended in dryland farming during

(A) Kharif

(B) Rabi

(C) Summer

(D) Winter

36. The micronutrient most commonly found deficient in the drylands of India is

(A) Iron

(B) Boron

(C) Calcium

(D) Zinc

37. Agronomic measure of soil conservation is

(A) Gully plugging

(B) Strip cropping

(C) Bunding

(D) Terracing

38. Contour cultivation is one of the following measures of soil conservation

(A) Agronomic

(B) Mechanical

(C) Forestry

(D) Physical

39. Mulch which is cheap and natural is

(A) Chemical mulch

(B) Plastic mulch

(C) Soil mulch

(D) Organic mulch

40. The system of growing trees for wood and grasses for grazing is

(A) Agri-horticultural

(B) Ley farming

(C) Silvi-pastoral

(D) Silvi-horticultural

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41. Cultivation of crops in the regions where the annual rainfall is more than 750 mm is

(A) Dry farming

(B) Dryland farming

(C) Rainfed farming

(D) Wet farming

42. Average annual rainfall of India is

(A) 892 mm

(B) 1092 mm

(C) 992 mm

(D) 1192 mm

43. Ratooning can be practiced as a mid-season correction measure in

(A) Sorghum

(B) Maize

(C) Cowpea

(D) Black gram

44. An extreme form of minimum tillage where primary tillage is completely avoided and secondary tillage is restricted to crop row zone is

(A) Year round tillage

(B) Conservation tillage

(C) Zero tillage

(D) Conventional tillage

45. Aridity is the description of

(A) Climate

(B) Extent of dryness

(C) Temperature

(D) Water availability

46. Optimum thickness of Low Density Poly Ethylene (LDPE) film for lining of water pond is

(A) 5-10 micron

(B) 20-50 micron

(C) 200-250 micron

(D) 800-1000 micron

47. Central Arid Zone Research Institute (CAZRI) is located at

(A) Ludhiana

(B) Hyderabad

(C) Solapur

(D) Jodhpur

48. Which process is first affected under moisture stress conditions

(A) Photosynthesis

(B) Cell division and elongation

(C) Protein synthesis

(D) Transpiration

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49. Graded bunding is done in

(A) Heavy textured soils

(B) Light textured soils

(C) Medium textured soils

(D) None of these

50. Contour bunds are recommended for

(A) High rainfall areas

(B) Medium rainfall areas

(C) Low rainfall areas

(D) None of these

51. Bench terraces are constructed at a slope gradient of

(A) > 2%

(B) > 5%

(C) > 10%

(D) > 15%

52. Scattering of detached soil particles by the impact of rain drop is called

(A) Gully erosion

(B) Splash erosion

(C) Sheet erosion

(D) Rill erosion

53. The most popular measure of soil conservation adopted in India is

(A) Bench Terracing

(B) Contour bunding

(C) Contour strip

(D) Graded bunding

54. Rills with more than ____ cm depth are generally called gullies

(A) 15 cm

(B) 20 cm

(C) 25 cm

(D) 30 cm

55. Which of the following soil particles has more erodability

(A) Sand

(B) Silt

(C) Clay

(D) Gravel

56. Drought Prone Area Programme was started in the year

(A) 1965

(B) 1970

(C) 1973

(D) 1999

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57. Which among the following is suitable to stabilize small gullies

(A) Brush Dams

(B) Gradonies

(C) Contour trenching

(D) Graded bunding

58. What should be the area under forest cover as per the National Forest Policy, 1988

(A) 33%

(B) 44%

(C) 55%

(D) 66%

59. Restocking of felled or otherwise cleared wood land is termed as

(A) Afforestation

(B) Agroforestry

(C) Reforestation

(D) Deforestation

60. The state with highest percentage of area under waste lands

(A) Uttar Pradesh

(B) Odisha

(C) Andhra Pradesh

(D) Rajasthan

61. The amendment used for reclamation of alkali soil is

(A) Calcite

(B) Gypsum

(C) Dolomite

(D) Lime

62. A short duration crop between two main crop is termed as

(A) Cash crop

(B) Catch crop

(C) Companion crop

(D) Short crop

63. Addition of organic matter to the soil decreases

(A) Porosity

(B) Water holding capacity

(C) Bulk density

(D) Nutrient holding capacity

64. Crust can be formed on all type of soils, except

(A) Clayey

(B) Loamy

(C) Silty

(D) Sandy

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65. Soil moisture characteristics curve can be developed by

(A) Pressure plate apparatus

(B) Tensiometer

(C) Gypsum block

(D) Evaporimeter

66. Broad Bed and Forrow (BBF) technology is most suitable management practice for

(A) Black soils

(B) Red soils

(C) Coastal sands

(D) Alluvial soils

67. The nutrient that is lost mostly by leaching is

(A) Magnesium

(B) Nitrogen

(C) Potassium

(D) Phosphorous

68. Conversion of nitrogen from organic to inorganic form is

(A) Immobilization

(B) Ammonification

(C) Mineralization

(D) Nitrification

69. Crop grown for food, fodder, green manure and soil conservation is

(A) Maize

(B) Cowpea

(C) Jowar

(D) Rice

70. Quantity of urea required to supply 100Kg of nitrogen to the soil is

(A) 46 Kg

(B) 92 Kg

(C) 217 Kg

(D) 200 Kg

71. Over the years, contribution of agriculture to GDP is

(A) Decreasing

(B) Increasing

(C) Fluctuating

(D) Stable

72. ICAR is a

(A) Deemed University

(B) Education Institution

(C) Research Institute

(D) Registered society

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73. One Cusec is equal to _____ litres of water flow per sec

(A) 4.5 litres

(B) 28.32 litres

(C) 30.12 litres

(D) 30.48 litres

74. Bulk Density is more in

(A) Clay soils

(B) Loam soils

(C) Red soils

(D) Sandy soils

75. Lines connecting areas receiving equal rainfall are called

(A) Isobars

(B) Isohyets

(C) Isoprecipitates

(D) Isopleths

76. Reclamation of sodic soil is done by

(A) Lime

(B) Lime followed by leaching

(C) Gypsum

(D) Gypsum followed by leaching

77. Most drought tolerant cereal crop

(A) Rice

(B) Maize

(C) Sorghum

(D) Wheat

78. Total Geographical Area of India is

(A) 141 m ha

(B) 228 m ha

(C) 304 m ha

(D) 328 m ha

79. WALAMTARI is located in

(A) Hyderabad

(B) Bhubaneswar

(C) Pune

(D) New Delhi

80. The component of precision farming that store, retrieve, update and analysis the data

(A) GIS

(B) GPS

(C) Remote sensing

(D) VRA

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81. The remote sensing project for creating digital inventory for horticultural crops in India

(A) CHAMAN

(B) FASAL

(C) CAPE

(D) CITAR

82. The following is a major disease during nursery stage

(A) Powdery mildew

(B) Downy mildew

(C) Damping off

(D) Sclerotial rot

83. Liquid fertilizer suitable for fertigation

(A) Super phosphate

(B) Calcium ammonium phosphate

(C) Anhydrous Ammonia

(D) Rock phosphate

84. Scorching of young plants is a major problem in

(A) Ferigation

(B) Micro irrigation

(C) Soil Solarization

(D) Plastic mulching

85. The following is an effective solubilizer used for cleaning drip irrigation system

(A) Sulphuric acid

(B) Hydrochloric acid

(C) Phospharic acid

(D) Nitric acid

86. The first Hi-tech horticulture practice in India is brought under

(A) Indo-Duch

(B) Netherlands

(C) FASAL

(D) Indo-Israil

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87. GIS based pruning system is established in which of the following crops

(A) Coffee

(B) Tea

(C) Mango

(D) Cocoa

88. High pressure foggers produce the drop let size of

(A) 10-30 μ

(B) 50-100 μ

(C) 100-150 μ

(D) 200-250 μ

89. Micrografting technique is exploited to produce virus free plants in

(A) Apple

(B) Banana

(C) Citrus

(D) Papaya

90. Indian Institute of Remote Sensing is located in

(A) Himachal Pradesh

(B) Dehradun

(C) Assam

(D) New Delhi

91. Most commonly found disease in HDP of banana is

(A) Sigatoka leaf spot

(B) Panama wilt

(C) Rhizome rot

(D) Bunchy top

92. Snugs and snails are severe problem in greenhouse cultivation in

(A) Cucumber

(B) Tomato

(C) Orchids

(D) Tulips

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93. Cucumber varieties suitable for protected cultivation

(A) Gynodioecious

(B) Monoecious

(C) Dioecious

(D) Parthenocarpic

94. The following is a partially decomposed media used for container cultivation

(A) Peat

(B) Rock wool

(C) Vermicultite

(D) Vermiculite

95. The type of tomatoes suitable for greenhouse cultivation

(A) Determinate

(B) Semi-determinate

(C) Indeterminate

(D) Prostrate

96. The first horticultural crop introduced for space cultivation?

(A) Radish

(B) Lettuce

(C) Spinach

(D) Bracoli

97. Leading state in protected cultivation in India is

(A) Gujarat

(B) Maharashtra

(C) Karnataka

(D) Haryana

98. The minimum number of satellites required to operate GPS system

(A) 32

(B) 18

(C) 24

(D) 28

99. Brain of precision farming system is

(A) GIS

(B) Remote sensing

(C) GPS

(D) DGPS

100. Which of the following is decision support system in precision farming?

(A) Nutrient expert

(B) Weed seeker

(C) Phytotron

(D) Kisan Suvidha

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