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Test Booklet Series

T. B. C. : ASC – 1/20

A

TEST BOOKLET

(ASSISTANT SOIL CONSERVATION OFFICER)~

12513

PAPER – I

Sl. 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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SEAL

1. What is the contribution of agriculture in the national GDP of India ?
 - (A) 10%
 - (B) 15%
 - (C) 30%
 - (D) 50%
2. The Major emission of CO₂ to the atmosphere is from :
 - (A) Biosphere
 - (B) Hydrosphere
 - (C) Lithosphere
 - (D) Stratosphere
3. The total Geographical area of India is :
 - (A) 144 mha
 - (B) 197 mha
 - (C) 276 mha
 - (D) 329 mha
4. The country having largest irrigation area in the world :
 - (A) China
 - (B) India
 - (C) Egypt
 - (D) USA
5. Total horticulture crop production of India in 2020-21 :
 - (A) 98 mt
 - (B) 185 mt
 - (C) 292 mt
 - (D) 313 mt
6. Which among the following input can be used in organic farming ?
 - (A) Masanobu Fukuoka
 - (B) Albert Howard
 - (C) Lady Eva Balfour
 - (D) Charles Walton
7. The Kisan Credit Card (KCC) Scheme was launched in the year :
 - (A) 1971
 - (B) 1956
 - (C) 1998
 - (D) 1988
8. Which among the following gas destroys the chlorophyll content in plants ?
 - (A) CO₂
 - (B) CO
 - (C) SO₂
 - (D) O₃

9. What is green GDP ?
- (A) Net value of GDP after discounting the cost incurred due to man-made destruction
- (B) Net value of GDP after discounting the money earned by NRI
- (C) Net value of GDP after discounting the cost incurred due to natural calamities
- (D) Net value of GDP after discounting the cost incurred due to environmental degradation
10. Flow of energy in the ecosystem is :
- (A) Unidirectional
- (B) Bidirectional
- (C) Circular
- (D) Both Uni-and bi-directional
11. Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) launched in the year :
- (A) Launched in 1st July, 2015
- (B) Launched in 2nd February, 2006
- (C) Launched in 21st January 2004
- (D) Launched in 2nd October, 1953
12. Who is known as father of Indian Ecology ?
- (A) R. Mishra
- (B) B. Sahani
- (C) R. Carson
- (D) Earnst Haeckel
13. What is the Percentage share of export earning from Agricultural Export ?
- (A) 10%
- (B) 25%
- (C) 40%
- (D) 55%
14. Which is not true for ecosystem ?
- (A) Energy flow
- (B) Nutrient cycling
- (C) Interacting components
- (D) Static
15. Highest nutry-cereal producing country in the world is :
- (A) USA
- (B) China
- (C) Ethiopia
- (D) India

16. The protective layer of Ozone is located in which of the following atmospheric layer ?
- (A) Troposphere
 - (B) Stratosphere
 - (C) Mesosphere
 - (D) Thermosphere
17. Which state is having the highest cropping intensity in India ?
- (A) Punjab
 - (B) Haryana
 - (C) UP
 - (D) WB
18. Which gas is likely to increase by afforestation ?
- (A) N_2
 - (B) O_2
 - (C) CO_2
 - (D) N_2O
19. Seed rate of Papaya for one hectare is :
- (A) 150 – 200 gm
 - (B) 250 – 450 gm
 - (C) 450 – 700 gm
 - (D) 1000 – 1200 gm
20. What is the contribution of agriculture in employment generation of India ?
- (A) 15%
 - (B) 35%
 - (C) 45%
 - (D) 65%
21. Which one among the following is the biotic component of an ecosystem ?
- (A) Producer
 - (B) Consumer
 - (C) Decomposer
 - (D) All of these
22. What would happen to the temperature of the Earth if there were no atmosphere surrounded ?
- (A) No effect
 - (B) Go on increasing
 - (C) Go on decreasing
 - (D) Increasing in day and decreasing in night time
23. Which among the following is a Non-renewable Natural Resource ?
- (A) Soil
 - (B) Water
 - (C) Coal
 - (D) Wildlife

24. Total food grain production of India in 2020-21 :
- (A) 230 mt
 - (B) 281 mt
 - (C) 292 mt
 - (D) 313 mt
25. Which among the following are the components of Liguified Petroleum Gas ?
- (A) Methane and Ethane
 - (B) Methane and Propane
 - (C) Propane and Ethane
 - (D) Propane and Butane
26. "More crop per drop" is the Slogan for which among the following scheme ?
- (A) Soil Health Card
 - (B) PMKSY
 - (C) PKVY
 - (D) PMFBY
27. The Chipko Movement started by Sunderlan Bahuguna in 1973 to conserve :
- (A) Soil
 - (B) Water
 - (C) Forest
 - (D) Endangered animals
28. Agriculture Price Support Policy of the Government mainly aims to benefit :
- (A) Farmers and Consumers
 - (B) Middleman
 - (C) Industrialist
 - (D) Government
29. The amount of energy that transfer from Producer to Primary consumer in food chain is :
- (A) 10%
 - (B) 30%
 - (C) 50%
 - (D) 90%
30. The new Agriculture Policy was established in :
- (A) 2010
 - (B) 2005
 - (C) 2000
 - (D) 2008
31. Term Ecosystem was coined by :
- (A) AG Tansley
 - (B) EP Odom
 - (C) Charles Elton
 - (D) Lindeman

32. Amritsagar is important cultivar of :
- (A) Beal
 - (B) Mango
 - (C) Banana
 - (D) Guava
33. Out of total 35 global biodiversity hotspots, how many are located in India ?
- (A) 4
 - (B) 6
 - (C) 7
 - (D) 10
34. Which among the following sector is the Major Non Point source of pollution ?
- (A) Agriculture
 - (B) Industry
 - (C) Manufacture
 - (D) Infrastructure
35. Which among the following Radiation is responsible for Ozone layer formation ?
- (A) Cosmic rays
 - (B) U. V. rays
 - (C) Visible rays
 - (D) Infra rays
36. What is the cropping intensity of India ?
- (A) 111%
 - (B) 126%
 - (C) 136%
 - (D) 146%
37. Which among the following is not a conservation tillage option ?
- (A) Zero tillage
 - (B) Minimum tillage
 - (C) Clean tillage
 - (D) Both (A) and (B)
38. Which among the following is an in-situ Agricultural Waste Management Process ?
- (A) Green Manuring
 - (B) Mulching
 - (C) Green Leaf Manuring
 - (D) All of these
39. In India Cyclonic storms generally observed during :
- (A) April – May
 - (B) June – July
 - (C) October – December
 - (D) Both (A) and (C)

40. How many soil parameters been taken to develop soil health card ?
- (A) 4
(B) 8
(C) 12
(D) 16
41. The best soil structure for favourable Physical Properties is :
- (A) Crumby and Granular
(B) Platy and Laminar
(C) Columnar and Prismatic
(D) Blocky
42. Which one of the following is the aim Integrated Pest Management ?
- (A) Increasing natural enemies of the pest
(B) Strengthening the host
(C) Keeping pest populations below injurious levels
(D) Billing the pest
43. The degree to which a soil resists deformation when a force applied is termed as :
- (A) Field Capacity
(B) Capillary Capacity
(C) Consistency
(D) Friability
44. Which of the following is not the selective herbicides ?
- (A) 2, 4 D
(B) Simazine
(C) Paraquat
(D) Butachlor
45. At which pH better growth of plants is found ?
- (A) 4 – 5
(B) 5 – 6
(C) 6.5 – 7.5
(D) 8 – 9
46. Which of the following is an example of Mimicry Weed ?
- (A) Green gram RMG-344 in green gram RMG-492 crop
(B) Black gram in green gram crop
(C) Chenopodium murale in berseem crop
(D) Phalaris minor in wheat crop
47. National Bureaus of Soil Survey and Land Use Planning (NBBS and LUP) was established in the year :
- (A) 1934
(B) 1955
(C) 1976
(D) 1985

48. Rill erosion usually begins in the :
- Lower part of land slope
 - Upper part of land slope
 - Middle of land slope
 - Entire length of land slope
49. Consider the following statements :
- Assertion (A) :** Phosphorus, availability is poor in acid soils.
- Reason (R) :** Phosphorus, is leached from acidic soils codes.
- (A) is true but (R) is wrong
 - (R) is true but (A) is wrong
 - Both (A) and (R) are true
 - Both (A) and (R) are false
50. Nutrient deficiency caused chlorosis in older leaves of plants :
- Sodium
 - Calcium
 - Magnesium
 - Nitrogen
51. Vertical section of soil is called as :
- Soil Profile
 - Soil Horizon
 - Soil Column
 - Regolith
52. The essential constituent of chlorophyll is :
- Calcium
 - Sulphur
 - Nitrogen
 - Iron
53. Plays a Major role in energy storage and transfer of ADP into ATP molecules :
- Mg
 - Fe
 - P
 - Mo
54. Kresek Phase Symptom found in plant disease :
- Black arm of cotton
 - Bacterial leaf blight of rice
 - Leaf curl of chilli
 - Late blight of potato
55. The following soil water is held due to adsorption forces :
- Gravitation water
 - Capillary water
 - Hygroscopic water
 - Hygroscopic and Capillary water

56. The deficiency symptoms of Calcium and Boron are generally observed on :
- (A) Young leaves in terminal bud
 - (B) Older leaves
 - (C) Lower leaves
 - (D) Older and new leaves
57. The decomposition of organic matter in soil reduces :
- (A) Acidity
 - (B) Alkalinity
 - (C) Fertility
 - (D) Salinity
58. The propagating material of Napier grass, Guinea grass, Para grass etc called :
- (A) Setts
 - (B) Rotted slips
 - (C) Corms
 - (D) Tubers
59. The disease resistance in plants is imparted by :
- (A) Potassium
 - (B) Molybdenum
 - (C) Nitrogen
 - (D) Manganese
60. Which is an illustration of relay cropping ?
- (A) Paddy – Wheat
 - (B) Soyabean – Maize
 - (C) Maize – Toria – Wheat
 - (D) Maize – Potato – Wheat – Moong
61. Dioecious variety of Papaya is :
- (A) Pusa Majesty
 - (B) Pusa Nanha
 - (C) Pusa Delicious
 - (D) Sunrise solo
62. The natural aggregates of soil are known as :
- (A) Peds
 - (B) Clods
 - (C) Fragments
 - (D) Grovel
63. Edible part of Coconut is :
- (A) Mesocarp
 - (B) Endocarp
 - (C) Endosperm
 - (D) Perianth

64. Which one of the following parent material is transported by gravity ?
- (A) Glacial
 - (B) Colluvial
 - (C) Eolicum
 - (D) Alluvial
65. ETL no. of aphids for successful Seed Plot Technique (SPT) in Potato is :
- (A) 10
 - (B) 20
 - (C) 30
 - (D) 40
66. Passive factors of soil formation includes :
- (A) Parent Material
 - (B) Climate
 - (C) Organisms
 - (D) None of these
67. Chemical uses for control for Pre-harvest drop of citrus is :
- (A) 2-4 D @ 20 ppm
 - (B) 2-4 D @ 200 ppm
 - (C) NAA @ 50 ppm
 - (D) NAA @ 500 ppm
68. Arrangements of Primary and Secondary soil particles in a certain pattern called :
- (A) Soil Concentration
 - (B) Soil Structure
 - (C) Soil Texture
 - (D) Soil Stabilization
69. Mridula is a variety of :
- (A) Guava
 - (B) Ber
 - (C) Pomegranate
 - (D) Aonla
70. Flame Photometer is used in the determination of :
- (A) Nitrogen
 - (B) Phosphorous
 - (C) Potassium
 - (D) Boron
71. Bio 212 is a somaclonal variety of :
- (A) Brassica juncea
 - (B) Lathyrus sativus
 - (C) Lycopersican esculentum
 - (D) Citronella java
72. Which of the following clay mineral is dominant in red soil ?
- (A) Smectite
 - (B) Mica
 - (C) Kaolinite
 - (D) Illite

73. Consider the following statements :
In Paddy crop, fertilizer application should be directed to the :
- (I) Oxidised zone
 - (II) Reduced zone
 - (III) Surface
- (A) Only (I) is correct
 - (B) Only (II) is correct
 - (C) (II) and (III) is correct
 - (D) (I) and (III) is correct
74. Which one of the soil component has highest CEC ?
- (A) Kaolinite
 - (B) Montmorillonite
 - (C) Vermiculite
 - (D) Organic Matter
75. Grassy shoot disease of sugarcane is caused by :
- (A) Fungi
 - (B) Bacteria
 - (C) Virus
 - (D) Mycoplasma
76. The rate of decomposition of lignins and phenolic compound is :
- (A) Rapid
 - (B) Very slow
 - (C) Slow
 - (D) Medium
77. Golden rice can mitigate the deficiency of :
- (A) Vitamin D
 - (B) Vitamin C
 - (C) Calcium
 - (D) Vitamin A
78. The suitable Nitrogen fertilizer for sodic (Alkali) soil is :
- (A) Sodium Nitrate
 - (B) Ammonium Sulphate
 - (C) Urea
 - (D) Ammonium Chloride
79. In grafting lower part of plant is known as :
- (A) Stock
 - (B) Apical
 - (C) Bud
 - (D) Scion
80. Which of the following instrument is used for measuring soil strength ?
- (A) Dynamometer
 - (B) Penetrometer
 - (C) Hydrometer
 - (D) Thermometer

81. Hermaphrodite variety of Papaya is :
- (A) Sunrise solo
(B) Coorge Honey Dew
(C) Surya
(D) CO-3
82. Baby corn is harvested at the stage of :
- (A) 2-3 days after silking
(B) 2-3 days after tasseling
(C) Milk stage
(D) R4 stage
83. Use of crop rotation for the reduction of pest population pest attack is a method :
- (A) Cultural
(B) Physical
(C) Chemical
(D) Mechanical
84. Which one of the following is a double cross hybrid variety of Mango ?
- (A) Sindhu
(B) Alphanso
(C) Neelam
(D) Arka Suprabhat (H-14)
85. Application of Muriate of Potash is generally not recommended for :
- (A) Wheat, Barley, Mustard
(B) Bajara, Sorghum, Maize
(C) Sugarcane, Sugarbeet, Tobacco
(D) Groundnut, Sesamum
86. Consider the following statements :
- (I) Maize is C4 plant
(II) Kranz anatomy present in C4 plant
(III) Photo-respiration does not occur in C3 plant
- (A) (I) only
(B) (I) and (III) only
(C) (II) and (III) only
(D) (I) and (II) only
87. Concentric ring or target board symptoms found in disease is caused by :
- (A) Phythium
(B) Cercospora
(C) Alternaria
(D) Phytophthora
88. Maximum number of fruit plants can be planted in the orchard by the system :
- (A) Square
(B) Triangular
(C) Hexagonal
(D) Rectangular

89. Which of the fertilizer contains citric acid soluble phosphoric acid ?
- (A) Basic slag
(B) Rock phosphate
(C) Single super phosphate
(D) Triple super phosphate
90. Gulabi is important cultivar of :
- (A) Grape fruit
(B) Pomegranate
(C) Strawberry
(D) Litchi
91. Which of the following element is required by plants for uptake and utilization of calcium ?
- (A) Manganese
(B) Chlorine
(C) Boron
(D) Selenium
92. Best harvesting or plucking stage of tea is :
- (A) Two leaves, two bud stage
(B) Two leaves, single bud stage
(C) Single leaves, single bud stage
(D) All of these
93. Which of the weed is controlled by the use of *Zygotropha bicolorata* as a bio-agent ?
- (A) Prickly pear opuntia
(B) *Xanthium strumarium*
(C) *Lantana camara*
(D) *Parthenium hysterophorus*
94. Inflorescence of Banana is :
- (A) Spadix
(B) Comby
(C) Solitary
(D) Panicle
95. Herbicide used to control *Orobanchaeaeegyptiaca* parasite in Mustard crop is :
- (A) Pendemethalin and fluchloalin
(B) Alachlor and bentazon
(C) Nitrofen and trifluralin
(D) MSMA and DSMA
96. Weight of sword sucker in Banana :
- (A) 250 gm
(B) 450 gm
(C) 750 gm
(D) 800-900 gm

97. Growing only one crop year after year on a piece of land is called :
- (A) Sole cropping
 - (B) Cropping pattern
 - (C) Companion cropping
 - (D) Mono-cropping
98. Sindhu seedless cultivar of Mango has which ?
- (A) Vegetative
 - (B) Stimulative
 - (C) Stenospermocarpy
 - (D) None of these
99. Which of the following is not a Kharif season weed ?
- (A) *Chenopodium album*
 - (B) *Amaranthus Viridis*
 - (C) *Echinochloa Coloum*
 - (D) *Commelina Bengalensis*
100. Which cereal crop is having least amount of lysine and tryptophan ?
- (A) Maize
 - (B) Rice
 - (C) Wheat
 - (D) Sorghum



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