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

Test Booklet Series

Sl. No. 12825

K-40

TEST BOOKLET

ASSISTANT SOIL CONSERVATION OFFICER

AGRICULTURE (PAPER-I)

Time Allowed: 1 & ½ hrs.

Maximum Marks: 100



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- **S**I
- 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.	Share (%) of agriculture and allied sectors in Gross Value Added of India at current basic prices in 2022-23. (A) 30.2 (B) 25.3 (C) 21.1	5.	In India, million people have left the agriculture sector between 2000 and 2021. (A) 4 (B) 11 (C) 33
	(D) 15.3		(D) 47
2.	In India, share of women in agriculture and allied sector was per cent in 2021. (A) 11.7 (B) 23.2 (C) 30.9 (D) 41.8	6.	Growth rate (% Growth over previous year) of Gross State Value Added of agriculture and allied sector at constant (2011-12) prices of Odisha in 2021-22. (A) 1.28 (B) 4.07 (C) 10.33 (D) 14.04
3.	In 2021, the global agricultural land area was down by per cent, compared with 2000. (A) 1 (B) 2 (C) 3 (D) 4	7.	Odisha has lakh hectares total geographical area. (A) 97.7 (B) 103.3 (C) 155.7 (D) 207.1
4.	The number of people working in agriculture worldwide, including forestry and fishing, went down by per cent between 2000 and 2021. (A) 5 (B) 10 (C) 15	8.	As per the Agriculture Census 2015-16, the average size of operational land holding in Odisha is ha. (A) 0.75 (B) 0.85 (C) 0.95





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13. A German researcher called 'Father of **9.** The usage of chemical fertilizers in Odisha Farming Science'. is _____ kg/ha in 2021-22. (A) Justus von Liebig (A) 73.74 (B) Francis Bacon (B) 82.71 (C) Jethro Tull (C) 98.23 (D) Nicolas Theodore de Saussure (D) 123.28 **14.** ____ age (12000 to 4000 B.C.) is 10. Odisha has forest cover of _____ per referred to as the 'Age of Food cent of total area in 2021-22. Producers'. (A) 39 (A) Palaeolithic (B) 35 (B) Mesolithic (C) 16 (C) Neolithic (D) 11 (D) Chalcolithic 11. In which year, cyclones Yaas, Gulab 15. Technical book dealing exclusively and Jawad hit Odisha? with agriculture was Sage Parashara's ___' in 1000 A.D. (A) 2018 (A) Agni Purana (B) 2019 (B) Krishi Sukti (C) 2020 (C) Amarakosha (D) 2021 (D) Krishiparashara 12. The term 'agronomy' comes from two ____ words, i.e., 'agros', which Which of the following is not a property 16. means field and 'nomos', meaning to of Idiotype for Dryland farming? manage. (A) Effective root system (A) Greek (B) Long growth duration (B) Latin (C) High yield potentiality with (C) Italic Altered morphology (D) Spanish (D) Drought tolerance

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- 17. The yields of both crops in intercropping are higher than of their pure crop on unit area basis.
 - (A) Companion cropping
 - (B) Parallel cropping
 - (C) Multi-tiered cropping
 - (D) Synergetic cropping
- **18.** It is cultivation of crops in regions with annual rainfall of less than 750 mm.
 - (A) Dry farming
 - (B) Dryland farming
 - (C) Rainfed farming
 - (D) Arid farming
- 19. It is reflecting type antitranspirant.
 - (A) Atrazine
 - (B) Silicone
 - (C) Kaolin
 - (D) Cycocel
- 20. It is a technique where in trenches of 40 cm wide & 15 cm deep are dug at 2-4 m interval across slope and filled with stubbles or organic wastes to a height of 10 cm above soil surface.
 - (A) Vertical mulching
 - (B) Live mulching
 - (C) Dust mulching
 - (D) Trenching

- 21. Globally, India ranks _____ in respect of equipped area for irrigation.
 - (A) First
 - (B) Second
 - (C) Third
 - (D) Fourth
- 22. It includes all water consumed by the plants and the water evaporated from bare land and water surface in the area occupied by the crop plants.
 - (A) Net irrigation
 - (B) Gross irrigation
 - (C) Leaching requirement
 - (D) Consumptive use
- 23. It is defined as the percentage of water held by one centimetre thick moist layer of soil subjected to a centrifugal force of 1000 times of gravity for half an hour.
 - (A) Field capacity
 - (B) Wilting coefficient
 - (C) Hygroscopic coefficient
 - (D) Moisture equivalent
- 24. The unsaturated soil water movement is also called as _____ movement.
 - (A) Hygroscopic
 - (B) Gravitational
 - (C) Capillary
 - (D) Non-capillary





25.	Amount of water required for scheduling irrigation at 0.8 IW/CPE ratio with 10 cm of CPE.	29.	Of the to produce weeds ac
	(A) 0.08 cm		(A) 6
	(B) 0.80 cm		(B) 20

(C) 8.00 cm

(D) 12.50 cm

26.	Which state has the highest area und	ler
	micro irrigation?	

(A) Andhra Pradesh

(B) Karnataka

(C) Maharashtra

(D) Rajasthan

27. A project with a cultivable command area of _____ hectares is classified as a major irrigation project.

(A) Less than 2000

(B) 2000-5000

(C) More than 5000

(D) More than 10000

28. The moisture percentage in a soil on wet-weight basis is 30% and particle density is 2.5 g/cm³. Find out the bulk density.

(A) 1.125

(B) 1.207

(C) 1.336

(D) 1.409

otal annual loss of agricultural from various pests in India, ccount for ______ %.

(C) 37

(D) 53

30. It is holo root parasitic weed.

(A) Orabanche

(B) Striga

(C) Cuscuta

(D) Loranthus

It is an effective biocontrol agent of Parthenium hysterophorus.

(A) Neconchetina eichhorniae

(B) Zygogramma bicolorata

(C) Coctoblastis cactorum

(D) Dactylopius indicus

A wettable powder bioherbicide containing fungal spores Colletotrichum gloeosporoides causes stem and leaf blight in Northern jointvetch.

(A) Devine

(B) Collego

(C) Bipolaris

(D) Biolophos

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	herbicide.		(PAR) is defined as radiation in the spectral range of nm.
	(A) Atrazine		(A) 100 to 300
	(B) Glyphosate		(B) 400 to 700
	(C) Paraquat		(C) 800 to 1100
	(D) Pendimethalin		(D) 1200 to 1500
34.	It is the state or situation of the atmosphere at a particular place and point of time.	38.	Almost a constant amount of solar radiation <i>i.e.</i> cal/cm ² /min is emitted by the sun continuously.
	(A) Weather		(A) 0.97
	(B) Climate		(B) 1.94
	(C) Environment		(C) 2.27
			(D) 3.73
	(D) Atmosphere		
35.	The ideal temperature for most crops is °C. (A) 5 to 25 (B) 10 to 30 (C) 15 to 40 (D) 20 to 45	39.	It is polar orbiting satellite operate at an altitude between 550 and 1600 km along an inclined circular plane over the poles and used for remote sensing purposes in India. (A) LANDSAT (B) SPOT (C) IRS (D) INSAT
36.	It is a day neutral plant.	40.	events begin with large-scale
	(A) Cotton		warming of surface water in the central and eastern equatorial Pacific Ocean.
	(B) Oat		(A) El Niño
	(C) Maize		(B) La Niña
	(D) Wheat		(C) Southern Oscillation
	(D) Whole		(D) Trans-Niño
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33. It is contact and non-selective | 37. Photosynthetically Active Radiation





41.	odisha falls under which horticultural zone?	45.	what is the spacing under high density planting of mango?
	(A) Temperate		(A) $10 \text{ m} \times 10 \text{ m}$
	(B) N.W. Sub-tropical		(B) $7 \text{ m} \times 7 \text{ m}$
	(C) N.E. Sub-tropical		(C) $5 \text{ m} \times 5 \text{ m}$
	(D) Central tropical		(D) $3 \text{ m} \times 2 \text{ m}$
42.	India is the largest producer of fruits after Brazil. (A) First	46.	It is not used to induce off-season flowering in mango. (A) Gibberellic acid
	(B) Second (C) Third		(B) Paclobutrazol(C) Ethrel
	(D) Fourth		(D) Potassium nitrate
43.	Around 50 per cent of the world coconut production is consumed in the form of	47.	It is used to control bunchy top of banana. (A) Mancozeb (B) Carbendazim (C) Chlorothalonil (D) 2,4-D
44.	Growing annual food crops in between the rows of trees or shrubs in arable lands. (A) Inter cropping (B) Alley cropping (C) Relay cropping	48.	It is an inter-specific polyembryonic acid lime hybrid developed for resistance to bacterial canker disease. (A) Rasraj (B) Vikram (C) Thar Vaibhav (D) Kuliana
	(D) Multiple cropping		(D) Kunana
	20. 7/1) 0.4/0.7/1	~	W 40 IDTO

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- **49.** The guava hybrid developed from the cross between Pant Prabhat and Arka Kiran.
 - (A) Pusa Pratiksha
 - (B) Pusa Aarushi
 - (C) Lalit
 - (D) Shweta
- 50. A closer spacing of 1.2 × 1.2 m. for cv.

 _____ is adopted for high density planting in papaya.
 - (A) Washington
 - (B) Red Lady
 - (C) Pusa Nanha
 - (D) Coorg Green
- 51. Tea contains alkaloids called ______, which is a caffeinaceus alkaloid relieving body fatigue.
 - (A) Tannin
 - (B) Trigonelline
 - (C) Xantheose
 - (D) Thein

- 52. When the mother trees of rubber are evolved by cross pollination (hand pollination) between two primary clones and are then multiplied vegetatively.
 - (A) True clones
 - (B) Secondary clones
 - (C) Tertiary clones
 - (D) Tributary clones
- 53. Abortion of one ovule due to nonfertilization leads to the formation of a single seeded fruit in coffee plant.
 - (A) Pea berry
 - (B) Double berry
 - (C) Triangular seeds
 - (D) Elephant bean
- 54. It is dwarf areca nut hybrid developed by cross between VTL 56 × Mohitnagar.
 - (A) Kalpa Sreshta
 - (B) Kalpa Sankara
 - (C) VTLAH1
 - (D) VTLAH2





- 55. The _____ technique is superior over other methods, hence it has been recommended for taking up of commercial multiplication of cashew varieties.
 (A) Air levering
 - (A) Air layering
 - (B) Softwood grafting
 - (C) Softwood cutting
 - (D) Budding
- growth habits can be propagated by

 layering, in which a low branch or one that can be bent easily to the ground is selected and it is injured (or scored) either by ringing, or slicing a cut 15 to 20 cm from the tip of the branch. The injured area is anchored in the soil deep enough to remain moist but the leafy tip is left above ground.
 - (A) Air
 - (B) Mound
 - (C) Serpentine compound
 - (D) Tip
- or group of cells initiating the development pathway that leads to reproducible regeneration of non-zygotic embryos capable of germinating to form complete plants.
 - (A) Organogenesis
 - (B) Somatic embryogenesis

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- (C) Embryo culture
- (D) Callus culture

- 58. Globally _____ million hectares of farmland is degraded each year.
 - (A) 1 to 2
 - (B) 3 to 4
 - (C) 5 to 7
 - (D) 8 to 12
- 59. Global pesticides use increased by

 per cent between 2000 and
 2021.
 - (A) 31
 - (B) 43
 - (C) 55
- (D) 62
- 60. The plants that grow better under partially shaded (low light) conditions.
 - (A) Heliophytes
 - (B) Sciophytes
 - (C) Mesophytes
 - (D) Halophytes

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61.	It is soil microfauna.	65.	of pollutant.
	(A) Bacteria		(A) Benzene
	(B) Algae(C) Nematodes		(B) Ethylene
	(D) Millipedes		(C) Mercury
	(D) Willipedes		(D) Iodine
62.	diversity is the inter community diversity expressing the rate of species turnover per unit change in habitat.	66.	1 ppm rise in CO ₂ would add Gt C into the atmosphere.
	(A) Alpha		(A) 1.21
	(B) Beta		(B) 2.12
	(C) Gamma		(C) 3.23
	(D) Delta		(D) 4.42
63.	A German botanist regarded as the Father of Plant Tissue Culture. (A) H. L. Duhamel du Monceau (B) R. J. Gautheret (C) Toshio Murashige (D) Gottlieb Haberlandt	67.	Seawater contains mg/L TDS. (A) 1500-3400 (B) 3500-5600 (C) 15000-21000 (D) 30000-34000
64.	Replacement of the existing community caused largely by any other external condition and not by the existing organisms.	68.	Heavy metals include all metals with atomic numbers greater than (A) 11
	(A) Heterotrophic succession		(B) 23
	(B) Autogenic succession		(C) 42
	(C) Allogenic succession		(D) 55
	(D) Secondary succession		W - 60
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69.	It is estimated that per cent of the world's landslides occur in the Himalayas.		by microbes and other soil heterotrophs.
	(A) 10		(A) Mineralization
	(B) 20		(B) Immobilization
	(C) 30		(C) Fixation
	(D) 40		(D) Denitrification
70.	The U.S. Soil Conservation Service defines conservation tillage (CT) as any tillage system that leaves at least ———————————————————————————————————	74.	Soluble P rapidly precipitates as in alkaline soils. (A) Iron phosphates (B) Aluminum phosphates (C) Calcium phosphates
	(B) 20		1000
	(C) 30		(D) Iron oxides
71.	A soil having electrical conductivity of the saturation extract (EC) greater than 4 dS/m and exchangeable sodium percentage (ESP) less than 15.	75.	Generally, a C:P will result in net mineralization of P. (A) < 200 (B) 200-300
	(A) Saline soil		(C) > 300
	(B) Sodic soil		(D) > 500
	(C) Saline-alkali soil		
	(D) Acid sulphate soil	76.	area under organic agriculture in total
72	 In soils, the smallest particles are termed colloids, which are particles 		agricultural area in 2021.
	that are nm in size.		(A) 23.0
	(A) 1 to 1000		(B) 11.6
	(B) 1000 to 10000		(C) 6.3
	(C) 2000 to 20000		(D) 1.5
	(D) 5000 to 50000		
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77	The dissolved fraction of soil organic matter not affected by pH.	8	1. The sea weeds ash is found to have more than % K ₂ O.
	(A) Humin		(A) 5
	(B) Humic acid		(B) 10
	(C) Fulvic acid		(C) 25
	(D) Humate		(D) 35
78.	fixing bacteria.	82	Zinc sulphate hepta hydrate (ZnSO ₄ .7H ₂ O) contains % zinc.
	(A) Azospirillum		(B) 23
,	(B) Acetobacter(C) Herbaspirillum(D) Azatobactor		(C) 26 (D) 35
79.	It is simple type of soil structure.	83.	Who gave the essentiality of zinc in plants?
	(A) Platy		(A) D. I. Arnon and P. R. Stout
	(B) Spherical (C) Massive (D) Prismatic		 (B) A. L. Sommer and C. B. Lipman (C) P. H. Brown, M. Welch and E. E. Cary (D) Theodre de Saussure and J. B. Boussingault
80.	Which form of soil consistency is observed in a dry soil? (A) Harsh	84.	A nanometre (nm) is equal to one of a metre.
	(B) Friable		(A) Hundredth
	(C) Plastic		(B) Thousandth
	(D) Sticky		(C) Millionth

(D) Sticky

(D) Billionth





85.		ps grown in summer month from sch to June.	89.	tran	timum age of the seedlings for splanting is days for medium
	(A)	Kharif			ation varieties of rice.
	(B)	Rabi		(A)	
	(C)	Zaid		(B)	
	(D)	Autumn		(C)	35-40 45-50
	(-)		1	(D)	43-30
86.	The	enzymes responsible for oxylation in C_3 plants.	90.	gen	the name of a rice that has been etically engineered (genetically dified) to produce β -carotene,
	(A)	Ribulose- 1,5-Biphosphate Carboxylase		whi	ch the body can convert into min A.
	(B)	Phosphoenol Pyruvate		(A)	Super rice
		Carboxylase		(B)	Green super rice
	(C)	NADP-Malate Dehydrogenase		(C)	Golden rice
	(D)	Pyruvate Phosphate Dikinase		(D)	Brown rice
87.		ha falls under which Agro-climatic ons/Zone of India?	91.	Enti	re outer portion of kernel is hard ch.
	(A)	Trans Gangetic plain region			Flint corn
		Western plateau and hills region			Dent corn
	(C)			(C)	Sweet corn
				(D)	Pop corn
	(D)	Eastern plateau and hills region	92.	The	Dt aattan taahnalaan waa firat
88.		d's % rice is produced in alone.	92.	appr	Bt-cotton technology was first oved in by the GEAC for mercial cultivation in central and h Indian cotton-growing zones of
	(A)	60		(A)	1998
	(B)	70		(B)	2002
	(C)	80		(C)	2008
	(D)	90		(D)	2012
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93.		iticum durum.	97.	26 ×	L 5) moderately resistant to blast
	(A)	Bread		shat	eases, non-lodging and non- tering, released by OAUT,
	(B)	Emmer		Bhu	baneswar.
	(C)	Macaroni		(A)	OEB 526
	(D)	Einkorn		(B)	OEB 532
				1) 15 5a-2 10	OEB 10
94.	Ferti	lizer dose for irrigated chickpea is N-P ₂ O ₅ -K ₂ O kg/ha.		(D)	VL 376
	(A)	12.5-25-0	98.	The	family of sugarcane crop.
	(B)	20-40-0		(A)	Asteraceae
	(C)	25-50-0		(B)	Fabaceae
	(D)	50-50-0		(C)	Poaceae
				(D)	Chenopodiaceae
95.	(A)	ntific name of green gram is	99.	toge	operation of tying the leaves ther using the bottom dry and green es in sugarcane.
	(B)	Vigna mungo		(A)	Detrashing
	(C)	Phaseolus vulgaris	L	(B)	Stubble shaving
	(D)	Phaseolus mungo		(C)	Propping
				(D)	Trashing
96.		ontains 20% oil and 40% high ity protein.	100.	Pota	to is tolerant to soils.
	(A)	Groundnut		(A)	Acidic
	(B)	Sunflower		(B)	Saline
	(C)	Soybean		(C)	Alkali
	(D)	Sesame		(D)	Waterlogged
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