

PROFESSOR JAYASHANKAR TELANGANA AGRICULTURAL UNIVERSITY
AGRICET – 2025
DIPLOMA IN AGRICULTURE

- | | | |
|----|---|---------------------------------|
| 1 | Which of the following gases contribute to nearly 99% by volume of air in lower atmosphere? | 4 |
| 1 | Nitrogen + Carbondioxide | 2 Oxygen + Carbondioxide |
| 3 | Argon + Carbondioxide | 4 Nitrogen + Oxygen |
| 2 | Which concept is more practically relevant to explain Indian monsoons? | 1 |
| 1 | Thermal concept | 2 Aerological concept |
| 3 | Humidity concept | 4 Flohn concept |
| 3 | In which land capability class, the land use is restricted to recreation | 4 |
| 1 | Class -II | 2 Class -IV |
| 3 | Class - VI | 4 Class - VIII |
| 4 | Diameter of USWB class A open pan evaporimeter is | 2 |
| 1 | 20 cm | 2 120 cm |
| 3 | 100 cm | 4 200 cm |
| 5 | Which one of the following is not an intercultivation practice | 3 |
| 1 | Thinning | 2 Weeding |
| 3 | Levelling | 4 Gap filling |
| 6 | Calculate the plant population per acre, if crop spacing is 80 cm between the rows and 50 cm between the plants | 2 |
| 1 | 1,000 plants/acre | 2 10,000 plants/ acre |
| 3 | 1,00,000 plants/acre | 4 4,000 plants /acre |
| 7 | Which of the following is a pop corn? | 3 |
| 1 | <i>Zea mays var amylacea</i> | 2 <i>Zea mays var indurate</i> |
| 3 | <i>Zea mays var everta</i> | 4 <i>Zea mays var ceratina</i> |
| 8 | The origin of Bengalgram crop is | 2 |
| 1 | China | 2 Turkey |
| 3 | Africa | 4 Brazil |
| 9 | Which of the following fertilizer is applied for better decomposition of green manure crops | 3 |
| 1 | Murate of Potash | 2 Sulphate of Potash |
| 3 | Single Super Phosphate | 4 Urea |
| 10 | Striga is a parasitic weed seen in | 2 |
| 1 | Rice | 2 Sorghum |
| 3 | Redgram | 4 Soybean |
| 11 | Which of the following is a Townsville stylo? | 3 |
| 1 | <i>Stylosanthes hamata</i> | 2 <i>Stylosanthes scabra</i> |
| 3 | <i>Stylosanthes humilis</i> | 4 <i>Stylosanthes fruticose</i> |

- 12 The desirable level of nicotine in FCV tobacco is 1
- 1 1.7 to 2.0 % 2 4.7 to 6.0 %
- 3 2.7 to 4.0 % 4 6.7 to 8.0 %
- 13 Which of the following crop is highly sensitive to waterlogging 3
- 1 Rice 2 Sugarcane
- 3 Sesame 4 Jute
- 14 Which of the following sugarcane varieties are poor ratoons 1
- 1 Early varieties 2 Mid late varieties
- 3 Late varieties 4 Both Mid and Late varieties
- 15 Which type of tobacco is cultivated in Odisha state. 3
- 1 Bidi tobacco 2 Hookah tobacco
- 3 Pikka tobacco 4 Chewing tobacco
- 16 Which method of tobacco curing is a slow process and takes 6-8 weeks 1
- 1 Air curing 2 Pit curing
- 3 Sun curing 4 Fire curing
- 17 Triticale is an example of which type of hybridization 1
- 1 Intergeneric hybridization 2 Interspecific hybridization
- 3 Intervarietal hybridization 4 Intragenetic hybridization
- 18 The sequence of events in release of new crop varieties in India 3
1. Identification of superior strains
2. Evaluation of performance
3. Development of new strains
4. Release and notification
- 1 1,2,3,4 2 3,1,2,4
- 3 3,2,1,4 4 4,3,2,1
- 19 Arrange the events in seed certification sequentially 4
1. Inspection of seed field
2. Post harvest inspection
3. Receipt & scrutiny of application
4. Verification of seed source
5. Grant of certificate
6. Seed sampling & testing
- 1 1,2,3,4,5,6 2 3,4,6,1,2,5
- 3 3,2,4,5,6,1 4 3,4,1,2,6,5
- 20 The development of embryo directly from the nucellus or integuments is called as --- 2
- 1 Apospory 2 Adventive embryony
- 3 Apogamy 4 Parthenogenesis
- 21 The standard physical purity of Groundnut certified seed is ---- 3
- 1 98% 2 99%
- 3 96% 4 100%

- 22 In which of the following crops bloom, internode length, sex expression and branching pattern are used for identification of rogues during field inspection 4
- 1 Sunflower 2 Cotton
3 Sesame 4 Castor
- 23 The seed coat peroxidase test is used for genetic purity testing in which of the following crops 3
- 1 Rice 2 Wheat
3 Soybean 4 Oats
- 24 Match the following soil particles based on size (in mm) 3
- 1 Clay A 0.02-0.2 mm
2 Fine Sand B 2.0 -75.0 mm
3 Silt C <0.002 mm
4 Gravel Pebbles D 0.002-0.02mm
- 1 1-D, 2 -C ,3-A, 4-B 2 1-C, 2 -D ,3-B, 4-A
3 1-C, 2 -A ,3-D, 4-B 4 1-D, 2 -A ,3-C, 4-B
- 25 Match the following units correctly 4
- 1 Bulk density A %
2 Electrical conductivity B me of Ca/100 g soil
3 ESP C Mg m^{-3}
4 Gypsum requirement D dSm^{-1}
- 1 1-B, 2 -C ,3-A, 4-D 2 1-C, 2 -A ,3-D, 4-B
3 1-B, 2 -A ,3-D, 4-C 4 1-C, 2 -D ,3-A, 4-B
- 26 The effect of light scattering in colloidal dispersion while showing no light in a true solution is called as 4
- 1 Brownian effect 2 Flocculation effect
3 Deflocculation effect 4 Tyndall effect
- 27 The pH concept was given by ---- 4
- 1 Robinson 2 Dokuchaev
3 Buckman& Brady 4 Sorensen
- 28 Match the following elements with their deficiency symptoms in crops 4
- 1 Magnesium A Rice Khaira disease
2 Zinc B Oats – Grey speck
3 Copper C Cauliflower - Whiptail
4 Molybdenum D Cotton Interveinal chlorosis
5 Manganese E Wheat – Empty glumes
- 1 1-D, 2-E, 3-C, 4-A, 5-B 2 1-B, 2-C, 3-E, 4-A, 5-D
3 1-D, 2-A, 3-C, 4-E, 5-B 4 1-D, 2-A, 3-E, 4-C, 5-B
- 29 Guano manure is a product of 2
- 1 Sea animal 2 Sea bird
3 Marine Fish 4 Sheep horns

- 30 Find out the free living nitrogen fixing bacteria from the following bio-fertilizers? 4
- 1 Rhizobium 2 Azospirillum
3 Azorhizobium 4 Azatobacter
- 31 Match the chemical formula with fertilizers and N content (%). 2
- | Fertilizer | Formula | N content (%) |
|----------------------------|---|---------------|
| 1 Urea | A $\text{NH}_4\text{NO}_3 + \text{Ca}(\text{NO}_3)_2$ | P 26 |
| 2 Calcium Ammonium Nitrate | B $(\text{NH}_4)_2\text{SO}_4$ | Q 16 |
| 3 Calcium Nitrate | C $\text{CO}(\text{NH}_2)_2$ | R 21 |
| 4 Ammonium Sulphate | D $\text{Ca}(\text{NO}_3)_2$ | S 46 |
- 1 1-D&Q, 2-A&P, 3-C&S, 4-D&R 2 1-C&S, 2-A&P, 3-D&Q, 4-B&R
3 1-B&R, 2-D&Q, 3-A&P, 4-C&S 4 1-A&P, 2-D&Q, 3-C&S, 4-B&R
- 32 Match the following P fertilizers with chemical formula. 4
- | | |
|------------------|--|
| 1 Gypsum | A $(\text{CaO})_5 \cdot \text{P}_2\text{O}_5 \cdot \text{SiO}_2$ |
| 2 Rock phosphate | B $\text{CaCO}_3 \cdot \text{MgCO}_3$ |
| 3 Basic slag | C $\text{Ca}_5(\text{PO}_4)_3\text{F}$ |
| 4 Dolomitic lime | D $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ |
- 1 1-B, 2-A, 3-C, 4-D 2 1-D, 2-A, 3-C, 4-B
3 1-A, 2-B, 3-D, 4-C 4 1-D, 2-C, 3-A, 4-B
- 33 Biuret concentration in urea should be below ---- 2
- 1 10% 2 1.5%
3 5.0% 4 50%
- 34 Rasping and sucking type of mouth parts are asymmetrical due to the absence of 2
- 1 Right Maxillae 2 Right Mandible
3 Left Maxillae 4 Left Mandible
- 35 Which of the following is anticoagulant rodenticide 3
- 1 Zinc phosphide 2 Aluminium phosphide
3 Bromodialone 4 Methyl bromide
- 36 Disease caused by fungi in insects is commonly known as 4
- 1 Septicemia 2 Treetop disease
3 Pebrine 4 Mycosis
- 37 Stridulatory organs are the characteristic feature of the following order? 1
- 1 Orthoptera 2 Hemiptera
3 Thysanoptera 4 Lepidoptera
- 38 The abdominal second segment is modified into pedicel or petiole in the following order 2
- 1 Isoptera 2 Hymenoptera
3 Thysanoptera 4 Diptera

- 39 Drie-Die results in death of storage pests due to 1
- 1 Loss of moisture 2 Increase in temperature
- 3 Decrease in RH 4 Loss of wax
- 40 Fore wings are divided into 2 parts and Hind wings are divided into 3 parts in the following insect pest ? 3
- 1 *Helicoverpa armigera* 2 *Spodoptera litura*
- 3 *Exelastis atrosa* 4 *Maruca vitrata*
- 41 Chlorotic patches at tips of leaflets in typical V shaped manner in groundnut is due to 3
- 1 White grub 2 Leaf miner
- 3 Leaf hopper 4 Thrips
- 42 Lepidopteran predator on sugarcane wooly aphid? 2
- 1 *Chrysoperla carnea* 2 *Dipha aphidivora*
- 3 *Epiricrania melanoleuca* 4 *Ceratovacuna lanigera*
- 43 Pumpkin beetle grubs feeds on 3
- 1 Stem 2 Leaves
- 3 Roots 4 Fruits
- 44 Maryland, USA does not allow mango imports from India because of the following pest? 1
- 1 Nut weevil 2 Fruit fly
- 3 Fruit borer 4 Shoot borer
- 45 Ovaries distorted into gall like structure in chillies due to 3
- 1 Thrips 2 Mites
- 3 Blossom midge 4 Aphids
- 46 Mid larval parasite on black headed caterpillar of Coconut 2
- 1 *Opisina areosella* 2 *Bracon brevicornis*
- 3 *Cotesia taragami* 4 *Goniozus nephantidis*
- 47 What is the Elasticity of production (EP) in stage III of production function 3
- 1 $EP < 1$ 2 $EP > 1$
- 3 $EP < 0$ 4 $EP = 0$
- 48 The loans that are due for the repayment within a period of two to five years are called 2
- 1 Current liabilities 2 Intermediate liabilities
- 3 Long term Assets 4 Long term liabilities
- 49 Kincked demand curve is an important feature of 1
- 1 Oligopoly market 2 Monopolistic competition
- 3 Duopoly market 4 Monopoly market

50	Assertion (A) : AFC curve is declining with increased output Reason (R): The total fixed costs are constant	3										
1	A is true but R is false	2 A is false but R is true										
3	Both A & R are true and R explains A	4 Both A & R are true but R does not explain A										
51	Match Column A with Column B	1										
	<table><tr><th>Market Structure</th><th>Characteristic</th></tr><tr><td>1 Perfect competition</td><td>A Many sellers-differentiated product</td></tr><tr><td>2 Monopolistic competition</td><td>B Few sellers-homogenous product</td></tr><tr><td>3 Pure Oligopoly</td><td>C Few sellers-differentiated product</td></tr><tr><td>4 Differentiated oligopoly</td><td>D Many sellers -homogenous product</td></tr></table>	Market Structure	Characteristic	1 Perfect competition	A Many sellers-differentiated product	2 Monopolistic competition	B Few sellers-homogenous product	3 Pure Oligopoly	C Few sellers-differentiated product	4 Differentiated oligopoly	D Many sellers -homogenous product	
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3	1-B, 2-A, 3-C, 4-D	4 1-C, 2-D, 3-A, 4-B										
52	The market information pertaining to market arrivals, prices, demand for the commodities etc., in the past period refers to	2										
1	Market news	2 Market intelligence										
3	Communication	4 Market extension										
53	In a four stroke engine, the speed of camshaft is	2										
1	Double the speed of crank shaft	2 Half the speed of crank shaft										
3	Triple the speed of crank shaft	4 Equal to speed of crank shaft										
54	Walking type tractor is fitted with	1										
1	8-12 hp engine	2 25-80 hp engine										
3	1.5-5 hp engine	4 150-200 hp engine										
55	Disc angle of harrow plough is	4										
1	15-25°	2 5-10°										
3	50-65°	4 40-45°										
56	The type of threshing cylinder mostly used for paddy crop is	2										
1	Peg type	2 Wire loop										
3	Angle bar	4 Hammer mill type										
57	In thin layer drying, grain depth should not be more than	2										
1	20 mm	2 20 cm										
3	10 mm	4 20 feet										
58	Rotary tiller is also called as	4										
1	Puddler	2 Chisel plough										
3	Auger plow	4 Rotavator										
59	In a rectangular weir if the crest length is same as that of the channel width it is known as	3										
1	Cipoletti weir	2 Triangular weir										
3	Suppressed weir	4 Nappe										

- 60 In subsurface drip irrigation system the discharge rate is generally in the range of 1
 1 0.6 to 3 l/h 2 6 to 13 l/h
 3 16 to 23 l/h 4 0.006 to 0.3 l/h
- 61 If a orifice flows partially then it behaves like a 3
 1 Sluice 2 Spillway
 3 Weir 4 Aqueduct
- 62 In weirs the depth of flow over the crest is known as 3
 1 Nappe 2 End contraction
 3 Head 4 Flume
- 63 To obtain reasonable degree of uniformity in the discharge of each sprinkler the 2
 mains should run in the direction of the
 1 Parallel slope 2 Steepest slope
 3 Grid lines 4 Counter lines
- 64 The area covered by a rotating head sprinkler can be estimated from the formula 1
 1 $R = 1.35 \sqrt{dh}$ 2 $R = 1.95 \sqrt{dh}$
 3 $R = 1.05 \sqrt{dh}$ 4 $R = 1.98 \sqrt{dh}$
- 65 ROM stands for 1
 1 Read Only Memory 2 Refer Only Memory
 3 Refer Only Magnetic 4 Record Only Memory
- 66 Which of these is not a computer language 4
 1 Fortran 2 Cobol
 3 Basic 4 Jargon
- 67 Homophones occur 2
 1 Single 2 In pairs
 3 In triplets 4 In quadruples
- 68 A part of word that can pronounced in one breath is called 2
 1 Phrase 2 Syllable
 3 Clause 4 Vowel
- 69 What are the conditions for hot water treatment for managing grassy shoot of 1
 sugarcane
 1 52°C for 30 min 2 50°C for 30 min
 3 52°C for 10 min 4 50°C for 10 min
- 70 The fungal genus causing damping off in vegetables 2
 1 Phytophthora 2 Pythium
 3 Verticillium 4 Fusarium
- 71 The symptoms of corky growth and localized death of cortical tissues of fruit is 2
 due to
 1 Scab 2 Cankers
 3 Blast 4 Warts

- 72 The scientific name of fungi causing downy mildew in sunflower 4
 1 *Plasmopara viticola* 2 *Pseudoperenospora cubensis*
 3 *Sclerospora graminicola* 4 *Plasmopara halstedii*
- 73 The bacterial leaf blight of rice spreads from one field to another field through 1
 1 Irrigation water 2 Soil
 3 Insects 4 Air
- 74 The association of nematode infestation is prominent in causing the following 2
 disease in banana
 1 Moko wilt 2 Panama wilt
 3 Heart rot 4 Sigatoka leaf spot
- 75 Which one of the following rootstocks are resistant against gummosis of citrus 3
 1 Rangapur lime 2 Balaji
 3 Jambheri 4 Tenali selection
- 76 Match the following 2

Crop	Secondary metabolite
1 Coleus	i Withamine A & B
2 Kalmegh	ii Sennosides
3 Ashwagandha	iii Diterpenoids
4 Senna	iv Forskolin
1 1-i, 2 -ii ,3-iii, 4-iv	2 1-iv, 2 -iii ,3-i, 4-ii
3 1-ii, 2 -iii ,3-i, 4-iv	4 1-iii, 2 -i ,3-ii, 4-iv
- 77 Application of the following nutrient increases the number of tillers in palmarosa 4
 1 Mg 2 Ca
 3 B 4 Zn
- 78 The division of forestry dealing with measurement of forest produce 3
 1 Forest utilization 2 Wood technology
 3 Forest mensuration 4 Forest management
- 79 Match the following 2

Tree	Common name
1 Teak	i Divine tree
2 Bamboo	ii Poor men's timber
3 Neem	iii King of forest plant
1 1-ii, 2 -iii,3-i	2 1-iii, 2 - ii,3-i
3 1-i, 2 - ii,3-iii	4 1-i, 2 - iii,3-ii
- 80 Modified system of shifting cultivation is 3
 1 Random mix 2 Multistoried cropping
 3 Taungya system 4 Strip system
- 81 Katha and cutch are produced from the wood of 1
 1 Khair 2 Neem
 3 Bamboo 4 Teak

82	Examples of tuberous roots			2
1	Potato	2	Sweet potato	
3	Ginger	4	Gladiolus	
83	Which of the following is the attached scion method of grafting			4
1	Veneer grafting	2	Soft wood grafting	
3	Epicotyl grafting	4	Inarching	
84	In banana removal of heart or male bud is known as			2
1	Mattocking	2	Tipping	
3	Propping	4	Trashing	
85	Gynodioecious varieties of papaya produces			4
1	Only staminate flowers	2	Only pistillate flowers	
3	Only hermaphrodite flowers	4	Both pistillate & hermaphrodite flowers	
86	Match the following			1
	Crop		Pigment	
	1 Tomato	i	Capsanthin	
	2 Chilli	ii	Quercetin	
	3 Onion	iii	Lycopene	
	4 Carrot	iv	Carotene	
1	1-iii, 2 -i ,3-ii, 4-iv	2	1-i, 2 -ii ,3-iii, 4-iv	
3	1-ii, 2 -i ,3-iii, 4-iv	4	1-iv, 2 -iii ,3-i, 4-ii	
87	Match the following			1
	Crop		Economic product	
	1 Cabbage	i	Head	
	2 Cauliflower	ii	Curd	
	3 Bottle gourd	iii	Pepo	
	4 Colacasia	iv	Corms	
1	1-i, 2 -ii ,3-iii, 4-iv	2	1-iii, 2 -ii ,3-iv, 4-i	
3	1-ii, 2 -i ,3-iii, 4-iv	4	1-iv, 2 -i ,3-iii, 4-ii	
88	According to the principles of Extension what is the basic unit of civilization			1
1	Home	2	School	
3	Nation	4	Community	
89	The leaders who actually initiate action within the group regardless of whether (or) not they hold an elected office			3
1	Ornamental leader	2	Prominent talent leader	
3	Operational leader	4	Professional leader	
90	An outline of procedures pertaining to some phases of extension work is known as --- ?			1
1	Project	2	Calendar of work	
3	Plan of work	4	Programme	
91	Which PRA technique is used for analyzing recurring seasonal challenges ?			4
1	Time line	2	Transact walk	
3	Matrix ranking	4	Trend analysis	

- 92 A process of formation of opinion about work (or) an object depending on its values and use to make effective decisions rather than hasty decision is known as which form of Evaluation 3
- 1 Informal evaluation 2 Project evaluation
3 Formal evaluation 4 Extension evaluation
- 93 India's first Biochar center of excellence was inaugurated at 2
- 1 Punjab Agricultural University, Ludhiana 2 Kanha Shanti Vanam, Hyderabad
3 Gujarat Natural Farming Science University, Panchmahal 4 National Dairy Research Institute, Karnal
- 94 World Food Prize for the year 2025 was awarded to 4
- 1 Dr. Geoffrey Hawtin 2 Ms. Heidi Kuhn
3 Dr. Cary Fowler 4 Dr. Mariangela Hungria
- 95 United Nations (UN) designated 2025 as the year of 1
- 1 International Year of the Co-operatives 2 International Year of Pulses
3 International Year of Millets 4 International Year of Women Farmer
- 96 First National Co-operative University was established at 1
- 1 Institute of Rural Management, Anand 2 Indian Institute of Mass Communication, Kolkata
3 Indian Institute of Management, Bengaluru 4 Indian Institute of Management, Kozhikode
- 97 The current Director General of ICRISAT is 1
- 1 Dr. Himanshu Pathak 2 Dr. M. L. Jat
3 Dr. Jacqueline Hughes 4 Dr. T. Mohapatra
- 98 Full form of VKSA, a 15 day nationwide agricultural outreach campaign by Union Ministry of Agriculture and Farmers' Welfare 3
- 1 *Vikas Krishi Sanarakshan Abhiyan* 2 *Viksit Kisan Samagra Abhiyan*
3 *Viksit Krishi Sankalp Abhiyan* 4 *Vikasit Krishi Surakshit Abhiyan*
- 99 PJTAU recently organized a state wide campaign "Rythu Mungitlo Shastravethalu" during ----- 1
- 1 5th May -13th June, 2025 2 12th May -24th June, 2025
3 1st to 13th May, 2025 4 1st to 31st May, 2025.
- 100 What are the names of the two genome-edited rice varieties developed by ICAR? 1
- 1 DRR Dhan 100 and Pusa DST Rice 1 2 Basmati 370 and Sona Masuri
3 DRR Dhan 64 and DRR Dhan 53 4 Pusa 1592 and Pusa Basmati 1728