

PROFESSOR JAYASHANKAR TELANGANA AGRICULTURAL UNIVERSITY
AGRIENGGCET – 2025
DIPLOMA IN AGRICULTURAL ENGINEERING

1	Ploughing method in which the plough works round a strip of unploughed land it is said to be	2
1	Gathering	2
3	Back furrow	4
2	In which harrow guard rails are provided to give rigidity and support to the harrow	1
1	Spring tooth	2
3	Acme	4
3	The size of green manure trampler is	4
1	It's handle height	2
3	It's minimum weight	4
4	The type of seed metering device in which the feed wheel is provided with fine and coarse ribbed flanges is	4
1	Fluted type	2
3	Picker wheel	4
5	The method of planting in which row to row and plant to plant spacing is uniform	4
1	Hill dropping	2
3	Dibbling	4
6	The machine used to cut herbage crops & leave them in swath is	2
1	Reaper	2
3	Post hole digger	4
7	The machine used to cut & bind the crop simultaneously is called	4
1	Mower	2
3	Thresher	4
8	The type of knives used on power chaff cutter are	1
1	Straight knives	2
3	Shovel knives	4
9	The type of header used by small combines is	2
1	T type header	2
3	Push type header	4
10	Under single cropping pattern the recommended horse power for a 2 hectares of land is	1
1	1 hp	2
3	20 hp	4

11	Torque convertor is also called as			2
1	Fluid clutch	2	Hydro kinetic transmission	
3	Kinematic transmission	4	Synchromesh transmission	
12	The gear reduction unit in the power train between differential & drive wheel is called			2
1	Differential lock	2	Final drive	
3	Ring gear	4	Pinion gear	
13	The type of brake used in crawler tractor is			4
1	Hydraulic brake	2	Disc brake	
3	Air brake	4	External contracting shoe type	
14	Hydraulic brake system is based on principle of			2
1	Newton's law	2	Pascal's law	
3	Bernoulli's law	4	Archimedes law	
15	Drainage does not remove the			3
1	Gravitational water	2	Hygroscopic water	
3	Capillary water	4	Drainage water	
16	Sand filter must be cleaned by which technique			2
1	Flow technique	2	Back washing	
3	Acid treatment	4	Pressure	
17	The exchangeable sodium percentage of alkali soils is			2
1	<15	2	>15	
3	<4	4	0	
18	Which valves are used to control the flow through the sub main pipes			1
1	Ball	2	Flush	
3	Non-return	4	Air-release	
19	The speed of rotating head of a sprinkler rotation is			1
1	1 rpm	2	5 rpm	
3	3 rpm	4	4 rpm	
20	Operating pressure of drip irrigation should be			1
1	1 kg/cm ²	2	2 kg/cm ²	
3	2.5 kg/cm ²	4	3 kg/cm ²	
21	Diameter of dug well in unconsolidated formation varies from			1
1	2-5 m	2	6-8 m	
3	8-10 m	4	11-15 m	
22	Impeller is also known as			3
1	Blade	2	Piston	
3	Propeller	4	Primer	

23	The Well should be designed for a life span of at least		4
1	1-5 years	2	2-8 years
3	0-1 years	4	10-15 years
24	The centrifugal pump impeller to pump brackish or salt water is made of		3
1	Bronze	2	Cast iron
3	Gun metal	4	Brass
25	Grading refers to classification of cleaned products based on		1
1	Quality	2	Shape
3	Size	4	Colour
26	The space between the edges of the opening in the screening surface is called		2
1	Mesh	2	Aperture
3	Hole	4	Vent
27	The ratio of the surface energy created by crushing to the energy absorbed by the solid is referred as		2
1	Grinding efficiency	2	Crushing efficiency
3	Milling efficiency	4	Communication efficiency
28	The ratio of the overall surface area of the ground product to the overall surface area of the feed is called		3
1	Degree of crushing	2	Crushing efficiency
3	Degree of grinding	4	Grinding efficiency
29	Which of the following is not a traditional grain storage structure		4
1	Kothar	2	Bukhali
3	Morai	4	R.C.C. silos
30	The process of separating grain from a mixture of grain and chaff in an air stream is called		2
1	Threshing	2	Winnowing
3	Separation	4	Scalping
31	The process of separating a liquid from a liquid-solid system with the use of solvent is called		2
1	Expelling	2	Extraction
3	Maceration	4	Compression
32	The working element of an Engleberg huller is		1
1	Ribbed cast iron roller	2	Plane cast iron roller
3	Ribbed steel roller	4	Plane steel roller
33	Processing time in a wet method of dhal (pigeonpea) milling process		1
1	4-5 days	2	1-2 days
3	6-10 days	4	7-14 days

34	Destoner separates the mixture based on			4
1	Size	2	Shape	
3	Roundness	4	Specific gravity	
35	The air velocity at which a particle remains suspended state in a vertical pipe is known as			2
1	Free fall velocity	2	Terminal velocity	
3	Lift velocity	4	Equilibrium velocity	
36	The tangent of the coefficient of friction for the material is equal to the value of			1
1	Angle of internal friction	2	Coefficient of traction	
3	Angle of external friction	4	Angle of repose	
37	The equation for lateral pressure in case of deep bins is given by			4
1	Airy	2	Bond	
3	Rankine	4	Janssen	
38	The magnetic separator performs separation on the basis of stickiness and			1
1	Surface texture	2	Density	
3	Colour	4	Shape	
39	The term "Pitch" is associated with			2
1	Belt conveyor	2	Screw conveyor	
3	Bucket elevator	4	Pneumatic conveyor	
40	Which of the following is a complex fertilizer			2
1	SSP	2	DAP	
3	Urea	4	MOP	
41	A two row barn with either face in or face out is selected for cows of number			4
1	2	2	4	
3	6	4	8 or more	
42	The floor space required per hen of large breed with 100 number is			1
1	0.37 sq.m	2	0.33 sq.m	
3	0.42 sq.m	4	0.25 sq.m	
43	Slaked lime is also called as			1
1	Hydrate of lime	2	Pure lime	
3	Fat lime	4	Quick lime	
44	Which of the following is not an essential element			1
1	Iodine	2	Potassium	
3	Boron	4	Nitrogen	
45	In offseason green house is used for			3
1	Cooling	2	Size reduction	
3	Drying	4	Cattle shed	

46	Photosynthesis does not increase at light intensities higher than	4
1	6.3 klux	2 12.3 klux
3	22.3 klux	4 32.3 klux
47	Cost minimization is the goal of	1
1	Factor-Factor relationship	2 Product-product relationship
3	Benefit – Cost ratio	4 Comparative advantage
48	Which of the following greenhouse material produces uniform diffused lighting inside the green house	1
1	Hammered glass	2 Tempered glass
3	Polycarbonate	4 Tefzel T ²
49	Contours of constant average wind velocity are called as	1
1	Isovents	2 Isodynes
3	Isohyets	4 Isobars
50	The movement of solar collectors to focus sunrays onto it is called	2
1	Sizing	2 Tracking
3	Deviating	4 Timing
51	Fill factor of solar cell ranges from	3
1	2-10	2 11-50
3	0-1	4 51-100
52	Wind mills are called as	1
1	Wind turbines	2 Wind engines
3	Wind motor	4 Wind generator
53	Which of the following is not a component of photo-voltaic cell for power generation	4
1	Blocking diode	2 Inverter
3	Battery storage	4 Flat plate collector
54	The mantle of biogas lamp is made up of	3
1	Jute	2 Cotton fiber
3	Ramic fiber	4 Iron mesh
55	Which of the following is best suitable for production of biodiesel	1
1	Jatropha	2 Cotton
3	Corn	4 Paddy
56	The minimum distance of biogas digester from the well should be	4
1	0.5 m	2 1 m
3	2 m	4 15 m
57	Each part of a machine which moves relative to some other part is known as	1
1	Element	2 Rigid body
3	Flexible body	4 Device

- 58 Sugarcane juice is extracted by a process called 3
 1 Esterification 2 Fermentation
 3 Maceration 4 Sterilization
- 59 Plantation grown for fuel purpose only is 1
 1 Energy plantation 2 High density plantation
 3 Fuel plantation 4 Afforestation
- 60 The rainfall measurements are usually taken at 2
 1 6:30 AM 2 8:30 AM
 3 12:30 AM 4 10:30 AM
- 61 The movement of excess precipitation water over the land surface is called 2
 1 Overland flow 2 Runoff
 3 Sheet flow 4 Transpiration
- 62 Mass participation of local people and organized community groups on the basis of religious, political or ethical awareness is called 1
 1 Ideological mobilization 2 Compulsory mobilization
 3 Voluntary mobilization 4 Systematic mobilization
- 63 In which of the following watershed an intense rainfall will cause peak runoff at outlet very shortly 1
 1 Small watershed 2 Large watershed
 3 Black soil watershed 4 Arid watershed
- 64 Rain drop erosion is also known as 1
 1 Splash erosion 2 Inter rill erosion
 3 Sheet erosion 4 Rill erosion
- 65 The leveled or table top terrace is recommended in 3
 1 High rainfall 2 Low rainfall
 3 Moderate rainfall 4 High permeable
- 66 Wind erosion commonly occurs in 1
 1 Arid regions 2 Humid regions
 3 Semi arid regions 4 Semi humid regions
- 67 Contour bonds are recommended for areas with a rainfall of 1
 1 <600 mm 2 700 -800 mm
 3 1000 mm 4 >1000 mm
- 68 Which of the following is the most accurate instrument for measuring stream velocity 2
 1 Coshocton wheel 2 Current meter
 3 Surface float 4 H-flume

69	The sizes of theodolites ranges between		1
1	8 to 25 cm	2	38 to 45 cm
3	30 to 35 cm	4	58 to 65 cm
70	Slope intercept form of a straight line is		2
1	$ax+by+c=0$	2	$y=mx+c$
3	$\frac{x}{a} + \frac{y}{b} = 1$	4	$y-y_1=m(x-x_1)$
71	If radius of the circle is zero then the circle is called as		1
1	Point - circle	2	Unit circle
3	In circle	4	Our circle
72	In which thermodynamic cycle heat is taken at one constant volume and rejected at another constant volume		2
1	Diesel cycle	2	Otto cycle
3	Carnot cycle	4	Rankine cycle
73	The instrument used for levelling when the distance is more than 100 m is		2
1	Level staff	2	Stadia rod
3	Ranging rod	4	Pole
74	When mechanical cycle is completed in two revolutions of the crank shaft it is called		2
1	Two stroke cycle engine	2	Four stroke cycle engine
3	One stroke cycle engine	4	Six stroke cycle engine
75	Capacity of battery is expressed in		4
1	Amperes	2	Watts
3	Columbs	4	Ampere-hours
76	The angle between two plane mirrors of optical square is		1
1	20 °	2	45 °
3	30 °	4	60 °
77	Each link in gunter's chain is		4
1	1 ft	2	0.33 ft
3	1.33 ft	4	0.66 ft
78	1 MPa is equal to		4
1	1 KN/mm ²	2	1 N/m ²
3	1 KN/m ²	4	1 N/mm ²
79	In a bar of different sections, a total change in length under a load is equal to		4
1	Difference of sections changes	2	Maximum of sections changes
3	Minimum of sections changes	4	Sum of sections changes

80	Which saw is used for cutting key holes			1
1	Pad saw	2	Jack saw	
3	Firmer saw	4	Compass saw	
81	Which of the following is a boring tool			1
1	Bradawl	2	Router	
3	Trammel	4	Gauges	
82	The rationalization factor of $7+\sqrt{5}$ is			1
1	$7-\sqrt{5}$	2	$\sqrt{5}+7$	
3	$14+\sqrt{5}$	4	$\sqrt{5}-7$	
83	If $\det A \neq 0$ the matrix is			2
1	Singular matrix	2	Non singular matrix	
3	Unit matrix	4	Square matrix	
84	Which of the following is not a property of moulding sand			4
1	Porosity	2	Flowability	
3	Adhesiveness	4	Additiveness	
85	The most dominant metallic element in the earth's crust is			3
1	Oxygen	2	Silica	
3	Aluminum	4	Iron	
86	The size of shaper is specified by			1
1	Maximum length of stroke of ram	2	Minimum length of stroke of ram	
3	Speed of ram	4	Diameter of ram	
87	If the reaction of beam at one of its supports is the resultant of horizontal and vertical, then it is a			2
1	Simply supported beam	2	Hinged beam	
3	Roller supported beam	4	Over hanging beam	
88	The single largest source of carbon monoxide is			1
1	Vehicular emissions	2	Dust particle	
3	Wood	4	Coal	
89	The reciprocal of resistance is called			2
1	E.M.F	2	Conductance	
3	Capacitance	4	Permittivity	
90	The unit of conductance is			2
1	Ohms	2	Siemens	
3	Ampere	4	Watts	
91	Father of Soil Mechanics is			4
1	Forchheimer	2	Boussinesq	
3	Darcy law	4	Terzaghi	

- 92 The graph between normal stress and shear stress is 1
 1 Mohr's circle 2 Dry density
 3 Particle size distribution curve 4 Consolidation curve
- 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 Cooperatives 2 International Year of Pulses
 3 International Year of Millets 4 International Year of Women Farmer
- 96 First National Cooperative 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