

- 16 The midpoint of the points A(-3,11) and B(1,-15) is (a)
 a (-1,-2) b (-2,-4)
 c (2,-13) d (4,-26)
- 17 If m_1 and m_2 are slopes of two parallel lines then (a)
 a $m_1=m_2$ b $m_1=-m_2$
 c $m_1,m_2=-1$ d $m_1,m_2=1$
- 18 The distance between the points A(1,-4) and B(6,8) is (b)
 a 5 b 13
 c 12 d 16
19. Curve number method estimates the (b)
 a Runoff rate b Direct runoff
 c Sub surface runoff d Discharge
- 20 In a centrifugal pump liquid enters through (b)
 a Impeller vane b Eye of impeller
 c Stuffing box d Diffuser
- 21 A cavity well is a tube well which has (b)
 a A strainer b No strainer
 c Slotted pipe and gravel pack d Brass screen
- 22 In a drip irrigation system, velocity of water in main lines should not be greater than (b)
 a 1.1 m/s b 1.5 m/s
 c 0.75 m/s d 2.1 m/s
- 23 Sprinkler irrigation method is not suited for soil having infiltration rate less than (a)
 a 4 mm/h b 2 cm/h
 c 4 cm/h d 3 mm/h
- 24 The heart of micro irrigation system is (b)
 a Laterals b Filters
 c Emitters d Nozzles
- 25 The pressure measured with the help of piezometer tube is (b)
 a Atmospheric pressure b Gauge Pressure
 c Absolute pressure d Vacuum pressure
- 26 The mass per unit volume at a standard temperature and pressure of a liquid is known as (b)
 a Specific weight of liquid b Density of Liquid
 c Specific gravity of liquid d Surface tension of liquid
- 27 Vegetative propagules of turmeric are (d)
 a Tubers b Stem cuttings
 c Rooted slips d Rhizomes
- 28 Weeds complete their life cycle within one year or one season are called as (c)
 a Perennials b Biennials
 c Annuals d Decennials
- 29 In India 10-20% of rainfall is received due to (b)
 a North west monsoons b North east monsoons
 c East west monsoons d Southwest monsoons
- 30 The innermost layer of atmosphere is (c)
 a Stratosphere b Mesosphere
 c Troposphere d Thermosphere
- 31 World environment day is celebrated on (b)
 a 11th June b 5th June
 c 22nd April d 22nd March

- 64 The direction in which a cutter moves in a milling machine is (a)
 a Perpendicular to its axis b Parallel to its axis
 c Inclined to its axis d Radial to its axis
- 65 A machine used to cut herbage crops and leave them in swath is (c)
 a Reaper b Combine
 c Mower d Baler
- 66 The type of spray in which spray volume is less than 5 l / ha is known as (d)
 a Low volume spray b Medium volume spray
 c High volume spray d Ultra low volume spray
- 67 Concave clearance for paddy crop is (b)
 a 2-5 mm b 5-10 mm
 c 13-15 mm d 15-22 mm
- 68 The rate at which solar energy arrives the earth surface is called (a)
 a Solar constant b Solar radiation
 c Solar waves d Solar flux
- 69 In a photo voltaic system the component which permits the flow of power only towards the battery or grid is called (a)
 a Blocking diode b Blocking resistance
 c Blocking capacitor d Blocking transistor
- 70 Electric motors are selected according to the (c)
 a Coulomb b Calorie
 c Horse power d Volts
- 71 Heating effects of electric current is represented by (c)
 a Newton's law b Coulomb's law
 c Joule's law d Kirchoff's law
- 72 The ratio of actual air supplied to the theoretical air required in a gasifier is called (c)
 a Compression ratio b Air fuel ratio
 c Equivalence ratio d Gasifier air ratio
- 73 Which of the following is not used as a binder in densification process (d)
 a Tar b Molasses
 c Sodium bentonite d Sodium chloride
- 74 In internet terminology IP means (b)
 a Internet provider b Internet protocol
 c Internet procedure d Internet processor
- 75 Help window can be opened by (c)
 a F2 b F9
 c F1 d F11
- 76 $(A+B)^T =$ (a)
 a A^T+B^T b $A+B^T$
 c A^T+B d $A+B$
- 77 If k is a constant, then $d/dx (k^n) =$ (d)
 a $n.k^{n-1}$ b k
 c 1 d 0
- 78 $AA^{-1} = A^{-1}A =$ (b)
 a O b I
 c A d A^{-1}
- 79 In drip irrigation system sub main and laterals are connected with the help of (b)
 a Endcap b Grommet
 c L- joint d Nozzle

- 80 The removal of soluble salts from soil by the passage of water through it is known as (d)
 a Infiltration b Seepage
 c Sub-surface drainage d Leaching
- 81 Allowable velocity (m/sec) in open ditches for sand clay loam soils is (c)
 a 0.90 b 0.75
 c 1.0 d 0.1
- 82 The datum adopted for India is (a)
 a MSL at Mumbai b MSL at Bangalore
 c MSL at Kolkata d MSL at Hyderabad
- 83 The operation of establishing intermediate points on a straight line between two terminal points is known as (c)
 a Chaining b Taping
 c Ranging d Focusing
- 84 The survey used for unearthing relics of antiquity (c)
 a Geological survey b Military survey
 c Archaeological survey d Mine survey
- 85 Slump test for concrete is carried out to determine (b)
 a Strength b Workability
 c Durability d Water content
- 86 The timber which is obtained after felling a tree is known as (c)
 a Standing timber b Converted timber
 c Rough timber d Tim brain
- 87 The curve which is having single arc of a circle connecting the two straights is called (b)
 a Complex curve b Simple curve
 c Mass curve d Multiple curve
- 88 Number of verniers on the horizontal scale of transit are (b)
 a One b Two
 c Three d Four
- 89 In theodolite the orientation of the axis of the plate level to the vertical axis is (d)
 a Opposite b Parallel
 c Inclined d Perpendicular
- 90 Units for deflection are (d)
 a kNm b kN/m
 c kN d mm
- 91 Slope in the beam at any point is measured in (c)
 a Degrees b Minutes
 c Radian d Metric tonnes
- 92 An instrument used to calculate velocity of a flowing stream at any liquid depth is (c)
 a Pilot tube b Manometer
 c Current meter d Orifice
93. Shell moulding is also known as (a)
 a Coning process b Ceramic process
 c Compression process d Extrusion process

94. The formula for passive earth pressure K_p is (b)
- | | | | |
|---|-------------------------------------|---|-------------------------------------|
| a | $\frac{1 - \sin\phi}{1 + \sin\phi}$ | b | $\frac{1 + \sin\phi}{1 - \sin\phi}$ |
| c | $\frac{1 - \cos\phi}{1 + \cos\phi}$ | d | $\frac{1 + \cos\phi}{1 - \cos\phi}$ |
95. Antonym of dismal is (a)
- | | | | |
|---|-------------|---|---------|
| a | Intelligent | b | Agitate |
| c | Egress | d | shrivel |
96. Indian council of Agricultural Research (ICAR) has signed MoU with one of the following digital platforms to guide farmers on scientific cultivation (b)
- | | | | |
|---|---------------|---|--------------|
| a | Kisan sarathi | b | Amazon kisan |
| c | Digital green | d | Flipkart |
97. Government of India promotes millets with one of the following brand names (a)
- | | | | |
|---|--------------|---|-------------------|
| a | Shree anna | b | Millets give away |
| c | Nutricereals | d | Poorman's food |
98. The fund launched by Government of India to increase the number of agricultural startups in rural areas is (b)
- | | | | |
|---|--------------------------------|---|------------------------------|
| a | Startup India Seed Fund Scheme | b | Agriculture accelerator Fund |
| c | Atal Innovation Mission | d | Startup India |
99. The developmental programme in which Government of India has given high priority to water conservation and management is (a)
- | | | | |
|---|--|---|--|
| a | Prime Minister Krishi Sinchayee Yojana | b | Paramparagat Krishi Vikas Yojana |
| c | Prime Minister Fasal Bheema Yojana | d | National Mission on Oil Seeds & Oil Palm |
100. The example for an interjection is (c)
- | | | | |
|---|----|---|-----|
| a | of | b | an |
| c | oh | d | but |