

1. Which one of the following is NOT a land-use category?
 - (a) Fallow land
 - (b) Net area sown
 - (c) Marginal land
 - (d) Culturable wasteland
2. Who got the golden boot award in the FIFA World Cup 2018?
 - (a) Harry Kane
 - (b) Ronaldo
 - (c) Embappe
 - (d) Luka Modric
3. Which Indian Movement began with the famous 'Dandi March' of Gandhiji?
 - (a) Quit India Movement
 - (b) Non-Cooperation Movement
 - (c) Khilafat Movement
 - (d) Civil Disobedience Movement
4. Who served as the first leader of the opposition in Lok Sabha in 1952?
 - (a) Syamaprasad Mukherji
 - (b) A.K. Gopalan
 - (c) E.M.S. Namboothirippad
 - (d) Y.B. Chavan
5. Which one of the following South Indian states has the highest ground water utilisation (in percent) of its total ground water potential?
 - (a) Tamil Nadu
 - (b) Andhra Pradesh
 - (c) Karnataka
 - (d) Kerala
6. The sub collector of Thalassery who suppressed the revolt of Pazhassi Raja?
 - (a) Lord Curzon
 - (b) Robert Clive
 - (c) Colonel Munro
 - (d) T.H. Baber
7. The name 'Karinthandan' was known in connection with
 - (a) Nadukani pass
 - (b) Thamarasseri pass
 - (c) Aruvamozhi pass
 - (d) Kuttiyadi pass
8. Which one of the following types describes water as a resource?
 - (a) Abiotic resource
 - (b) Non-renewable resource
 - (c) Biotic resource
 - (d) Cyclic resource
9. The only cricketer to score double century thrice in one day international cricket
 - (a) Veerendar Sevag
 - (b) Sachin Tendulkar
 - (c) Rohit Sharma
 - (d) Virat Kohli
10. The original name of Thycaud Ayya
 - (a) Kunjan Chattambi
 - (b) Subbarayan
 - (c) Muthukutty
 - (d) Kunhikannan
11. In which one of the following states are the major oil fields located?
 - (a) Assam
 - (b) Bihar
 - (c) Rajasthan
 - (d) Tamil Nadu
12. The social reformer who led the Kallumala Samaram?
 - (a) Dr. Palppu
 - (b) Vagbhatananda
 - (c) Ayyankali
 - (d) Sahodaran Ayyappan
13. Name of the Croatian President who was in the news during FIFA World Cup 2018.
 - (a) Vladimir Putin
 - (b) Kolinda Grabar - Kitarovik
 - (c) Emmanuel Macron
 - (d) Tony Blair
14. Which of the following is non-renewable source of energy?
 - (a) Hydel
 - (b) Solar
 - (c) Thermal
 - (d) Wind power
15. The smallest district in Kerala by population
 - (a) Alappuzha
 - (b) Palakkad
 - (c) Kasargod
 - (d) Wayanad
16. The Vallarpadam Terminal, the only trans-shipment port is at which state?
 - (a) Tamilnadu
 - (b) Kerala
 - (c) Andhra Pradesh
 - (d) Maharashtra
17. Mahatma Gandhi Marine National Park is in
 - (a) Rameswaram
 - (b) New Delhi
 - (c) Ganga Sagar Island
 - (d) Port Blair
18. The Simon Commission was appointed during the period of which Viceroy?
 - (a) Lord Irwin
 - (b) Lord Wellington
 - (c) Lord Chelmsford
 - (d) Lord Curzon
19. 'Vayalvaram Veedu' was the name associated with which social reformer?
 - (a) Pandit Karuppan
 - (b) Sahodaran Ayyappan
 - (c) Sree Narayana Guru
 - (d) Chattambi Swamikal
20. Twelfth Five Year Plan in India completed its term in
 - (a) March 2014
 - (b) March 2015
 - (c) March 2016
 - (d) March 2017
21. Among the following terms which one is odd
 - (a) Watershed
 - (b) Command area
 - (c) Catchment area
 - (d) Drainage basin
22. In 1:50,000 toposheet, contour lines are given at
 - (a) 20 km
 - (b) 10 km
 - (c) 25 km
 - (d) 50 km
23. Plate like structure occur in
 - (a) Surface horizon
 - (b) BHorizon
 - (c) Any part of the profile
 - (d) C Horizon
24. Soils of arid region are generally low in two constituents
 - (a) P and K
 - (b) Fe and Mn
 - (c) OM and nitrogen
 - (d) All the above
25. Legumes have a marked preference for
 - (a) Potassium
 - (b) Calcium
 - (c) Phosphate
 - (d) Sulfate
26. ----- is a rare constituent of atmospheric precipitation.
 - (a) NH₃
 - (b) NO₂
 - (c) NO₃
 - (d) NO₂ and organically bound nitrogen
27. Accepted tolerable limit of annual soil loss is
 - (a) 16-20 Mg/ha
 - (b) 12-16 Mg/ha
 - (c) 4-12 Mg/ha
 - (d) 20-25 Mg/ha
28. The most easily eroded soil particles are having size in the range of
 - (a) 0.01 mm to 0.05 mm
 - (b) 0.10 mm to 0.20 mm
 - (c) 0.05 mm to 0.10 mm
 - (d) 0.10 mm to 0.50 mm
29. ----- form of sulfur is predominant in humid region surface soil.
 - (a) Mineral
 - (b) Inorganic
 - (c) Organic
 - (d) All the above
30. Reclamation of sodic soils is usually done by
 - (a) Gypsum application
 - (b) Leaching with water
 - (c) Sulfur application
 - (d) Gypsum application and leaching with water
31. An index which is widely used to represent quantum of aggregates
 - (a) >1.0 mm
 - (b) 1.0 mm
 - (c) 0.5 mm
 - (d) >0.25 mm
32. 'SO₄²⁻' adsorption is restricted to
 - (a) Acidic soils
 - (b) Alkaline soils
 - (c) Neutral soils
 - (d) Neutral to alkaline soils
33. Azotobacter chroococcum is found in
 - (a) Near neutral soil condition
 - (b) Alkaline soil condition
 - (c) Acidic soil condition
 - (d) Near neutral and slightly alkaline condition
34. The deficiency range of hot water extractable boron is
 - (a) <0.5 mg/kg
 - (b) <1.0 mg/kg
 - (c) <0.1 mg/kg
 - (d) <2.0 mg/kg
35. Safe limit of nitrate in drinking water is
 - (a) 10 mg/L
 - (b) 45 mg/L
 - (c) 20 mg/L
 - (d) 5 mg/L
36. ----- is a nitrification inhibitor.
 - (a) Isobutylidene diurea
 - (b) Neem cake
 - (c) Urea form
 - (d) All the above
37. The first objective of watershed management is
 - (a) Enhancement of agricultural productivity
 - (b) Improvement of water yields
 - (c) Conservation of natural resources
 - (d) Rehabilitation of natural resources
38. ----- are an important part of "Ela" system.
 - (a) Arable lands
 - (b) Non arable lands
 - (c) Village streams
 - (d) Grazing lands
39. Mini watershed has an area of ----- square kilometer.
 - (a) 1-10
 - (b) 10-100

- (c) <1.0
(d) 100-200
40. Rainfall in excess of ----- is always causing runoff.
(a) >50.0 mm/day
(b) >12.5 mm/day
(c) >10.0 mm/day
(d) >25.0 mm/day
41. Soil surveys began in the year
(a) 1869
(b) 1899
(c) 1929
(d) 1935
42. The name "Ustochrept" is used to identify a
(a) Suborder
(b) Great group
(c) Subgroup
(d) None of the above
43. Regur formation is dominant in
(a) Laterite soil
(b) Podzols
(c) Saline soils
(d) Black cotton soil
44. In soils, cohesion is due to
(a) Vander Waal's forces
(b) Electrostatic attraction
(c) Cationic bridge
(d) All the above
45. The general range of organic matter content of mineral soils is
(a) 0.5-1.5%
(b) 2.0-5.0%
(c) 1.0-20.0%
(d) 1.0-10.0%
46. Erosivity index was developed by
(a) Wischmeir
(b) Wischmeir and Smith
(c) Smith
(d) Kohnke and Bertrand
47. In the Universal soil loss equation, factors that are amenable to manipulation are
(a) R and K
(b) L and S
(c) C and P
(d) All the above
48. The first earth resource technology satellite is
(a) IRS - 1A
(b) IRS - 1B
(c) IRS - 1C
(d) ERST - 1
49. The number of phases to be completed in planning and execution of watershed management programme
(a) 4
(b) 3
(c) 5
(d) 6
50. The year of start of NWDPR is
(a) 1987
(b) 1988
(c) 1986
(d) 1989
51. The number of major categories of soil grouping in the land capability classification is
(a) 8
(b) 3
(c) 4
(d) 2
52. The USLE model applies to
(a) Sheet and Rill erosion
(b) Gully or stream bank erosion
(c) Soil loss from watersheds
(d) Soil loss from individual storms
53. The speed corresponding to the energy needed for runoff to detach soil particles is
(a) >10 cm/S
(b) >25 cm/S
(c) >30 cm/S
(d) >40 cm/S
54. Crops suited for cultivation in land with gentle slopes
(a) Close growing crops
(b) Any type of crop
(c) Tree crops
(d) Semi perennials
55. ----- ha is taken as a unit for planning water shed development programme at the village level.
(a) 500 ha
(b) 1-50 ha
(c) 50-100 ha
(d) 500-1000 ha
56. Classification scheme proposed by Vames (1978) is used to classify
(a) Landslides
(b) Gullies
(c) Sheet erosion
(d) Fluvial erosion
57. National Rainfed Area Authority was set up Govt. of India in the year
(a) 2005
(b) 2006
(c) 2007
(d) 2008
58. The extent of vegetation cover required to prevent splash erosion is
(a) 50
(b) 55
(c) 60
(d) 70
59. When the degree of slope doubles, the amount of erosion per unit are increases by
(a) 1
(b) 2
(c) 2.5
(d) 4
60. Which one of the following compounds contains highest of "P-2O-5"
(a) Triple superphosphate
(b) Single superphosphate
(c) Enriched superphosphate
(d) Superphosphoric acid
61. The ratio of total area cropped in a year to the land area available for cultivation and expressed in percentage is the -----
(a) Cultivated land utilization index
(b) Multiple cropping index
(c) Crop intensity index
(d) Relative cropping intensity index
62. The deep clay to clay loam soils developed in the semi acid areas of Deccan plateau are known as -----
(a) Alfisols
(b) Vertisols
(c) Inceptisols
(d) Entisols
63. 1 bar = ----- cm of water column (approximately)
(a) 100 mm
(b) 75 cm
(c) 100 cm
(d) 1000 cm
64. Conservation tillage system are methods of soil tillage which leave at least ----- per cent of the crop residue on the soil surface.
(a) 5
- (b) 10
(c) 20
(d) 30
65. The seed rate to be adopted for a crop depends on the plant spacing, test weight and -----
(a) size of seed
(b) area to be planted
(c) yield potential
(d) germination percentage
66. Hyper acid zones are those having an aridity index of -----
(a) <0.03
(b) 0.03 to 0.10
(c) 0.03 to <0.20
(d) 0.20 to 0.50
67. In India, ----- percent of total annual rainfall is received during the South West monsoon season.
(a) 75
(b) 65
(c) 50
(d) 40
68. Among the following, ----- is not an implement for secondary tillage.
(a) Cultivator
(b) Disc plough
(c) Harrow
(d) Plank and roller
69. A cropping system in which crop intensification occurs only in time dimension is -----
(a) Multi tier cropping
(b) Sequential cropping
(c) Relay cropping
(d) Mixed cropping
70. The 'stress hormone' which imparts drought tolerance to plant is -----
(a) IAA
(b) ABA
(c) GA
(d) Cytokinin
71. Underground layer of porous rocks or soils saturated with water from above which yield significant amounts of water are called -----
(a) aquicludes
(b) aquifers
(c) aquitards
(d) water tables
72. ----- is defined as the physical condition of the soil in relation to crop growth.
(a) Mellowness
(b) Friability
(c) Tilth
(d) Aggregation
73. Growing of two or more crops simultaneously on the same piece of land with a definite row pattern is known as -----
(a) Intercropping
(b) Multiple cropping
(c) Relay cropping
(d) Polyculture
74. The Central Soil and Water Conservation Research and Training Institute is located at -----
(a) Dehradun
(b) Pantnagar
(c) Lucknow
(d) Hyderabad
75. ----- law states that the flow of water through a unit cross section of soil is proportional to the gradient of hydraulic head.
(a) Beer's
(b) Bernouli's

- (c) Liebig's
(d) Darcy's
76. ——— is a herbicide used for weed control in zero tillage.
(a) 2,4-D
(b) Oxyfluorfen
(c) Glyphosate
(d) Cyhalofop butyl
77. Overall biological advantage of intercropping is indicated when the LER is ———
(a) 1
(b) <1
(c) >1
(d) 0
78. Climatic clarification based on moisture index, seasonal variation in rainfall, humidity index and aridity index was proposed by ———
(a) Koppen
(b) Troll
(c) Gaussen
(d) Thornthwaite and Mather
79. The upper limit of available moisture for plants is given by the soil moisture constant, ———
(a) maximum water holding capacity
(b) field capacity
(c) permanent wilting point
(d) hygroscopic co-efficient
80. The main objective of stubble mulch tillage is ———
(a) weed control
(b) improved soil aeration
(c) reduced evaporation
(d) soil and water conservation
81. Competition between associated crops in mixed crop communities has been discussed in depth by ———
(a) Beer
(b) Donald
(c) De wit
(d) Willey
82. Dryland farming is the cultivation of crops in regions with annual precipitation of ———
(a) <1500 mm
(b) <750 mm
(c) >750 mm
(d) >1500 mm
83. The moisture index of a humid (B3) region falls in the range of ———
(a) 100 and above
(b) 80 to 100
(c) 60 to 80
(d) 40 to 60
84. ——— is considered the Father of Tillage.
(a) Pietro de Cresenzi
(b) Jethro Tull
(c) Justus Von Liebig
(d) Boussinghault
85. If the yields of groundnut and red gram grown as pure crops are 1200 and 1000 kg/ha respectively, and their yields as intercrops are 1000 and 600 kg/ha respectively, the land equivalent ratio of groundnut + red gram intercropping system is ———
(a) 2.8
(b) 1.43
(c) 1.5
(d) 1.8
86. NICRA programme launched by ICAR during the XI plan period focuses on ———
(a) Climate Resilient Agriculture
(b) Crop Resurrection Agriculture
(c) Continuous Rainfed Agriculture
(d) Conservation and Restoration Agriculture
87. Crop coefficient is the ratio between ———
(a) E_{tc} and E_{To}
(b) PET and E_{To}
(c) PET and E_{Tc}
(d) PE and PET
88. A gradient of ——— degrees is the limit of operating efficiency for machines working on slopes.
(a) 6-8
(b) 8-10
(c) 10-12
(d) 12-14
89. An example for a Sloping Agricultural Land Technology (SALT) is ———
(a) Jhum
(b) Taungya
(c) Modan
(d) Diara

90. — is an example of a reflectant type anti transparent.
(a) Phenyl mercuric acetate
(b) Mibi-leaf
(c) Ascorbic acid
(d) Kaoline
91. The method of irrigation adopted for widely spaced plants like coconut palms is —
(a) ring basin method
(b) furrow method
(c) check basin method
(d) border irrigation
92. Which of the following is not used as a cover crop for soil and water conservation?
(a) Mikania
(b) Calopo
(c) Centro
(d) Mucuna
93. The Farming Systems Research Station under the Kerala Agricultural University is located at —
(a) Thiruvalla
(b) Balaramapuram
(c) Kottarakkara
(d) Kumarakom
94. Vertical mulching is a practice commonly followed to improve infiltration and storage of rain water in — soils.
(a) red
(b) alluvial
(c) laterite
(d) black

95. In general, bulk density of soil ranges from — g/ cm^3 .
(a) 2 to 3
(b) 0.5 to 0.75
(c) 1 to 1.5
(d) 5 to 7.5
96. Tillage operations carried out in the standing crop are together called —
(a) secondary tillage
(b) earthing up
(c) after cultivation
(d) inter cultivation
97. A practice in multiple cropping system which helps to control problematic weeds and pests is —
(a) strip cropping
(b) relay cropping
(c) crop rotation
(d) multi-tier cropping
98. The land configuration recommended by ICRISAT for

- medium to deep black soils receiving 700-1300 mm rainfall and up to a maximum of 5 percent slope is —
(a) dead furrows
(b) catch pits
(c) broad beds and furrows
(d) tied ridges
99. The amount of water required for each irrigation for scheduling irrigation at IW/CPE ratio of 0.5 with 10 cm of CPE is —
(a) 0.05 cm
(b) 5 cm
(c) 20 cm
(d) 10.5 cm
100. The process of deep ploughing done to break open hard pans is known as —
(a) sub soiling
(b) basin listing
(c) discing
(d) scooping