

Seat No.	
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ENT-71

Total No. of Pages : 18

M. Tech. (Rural Technology)
Entrance Examianation 2026
Sub. Code: 71140

Day and Date : Tuesday, 21-07-2026
Time : 10.30 p.m. to 12.00 p.m.

Total Marks : 100

Instructions

- 1) All questions are compulsory.
- 2) Each question carries 1 mark.
- 3) Answers should be marked in the given OMR sheet by darkening the appropriate option.
- 4) Follow the instructions given on OMR Sheet.
- 5) Rough work shall be done on the sheet provided at the end of question paper.

1. Which Union Ministry launched the 'YUVA PORTAL' to identify potential young Start-Ups?
 - a. Ministry of Science and Technology
 - b. Ministry of Youth Affairs and Sports
 - c. Ministry of Power
 - d. Ministry of Housing and Urban Affairs
2. The predominant gases that constitute the Sun are
 - a. Hydrogen and Helium.
 - b. Hydrogen and Methane
 - c. Methane and Helium
 - d. Methane and CO₂
3. Water functions in the body to
 - a. serve as a medium for chemical reactions
 - b. dissolve oxygen
 - c. induce glycogen
 - d. moderate metabolism

4. Insulation is used to
 - a. decrease heat transfer rate
 - b. increase heat transfer rate
 - c. none of above
 - d. All the above
5. A voltage will influence the current only if the circuit is the
 - a. Open
 - b. Insulated
 - c. High resistance
 - d. Closed
6. Where is the headquarters of the United Nations Organization (UNO) located?
 - a. Tokyo, USA
 - b. Washington DC, USA
 - c. New York, USA
 - d. New Delhi, India
7. What is the full form of IGNOU?
 - a. Indira Gandhi National Open University
 - b. Indian Global National Open University
 - c. International Global Nation Open University
 - d. None of these
8. Thomas Cup is associated with which sport?
 - a. Tennis
 - b. Football
 - c. Badminton
 - d. Cricket
9. Which Country is the leading producer of Diamonds?
 - a. Russia
 - b. Qatar
 - c. Oman.
 - d. Netherland
10. The decimal system was introduced by
 - a. Aryabhatta
 - b. Brahmagupta
 - c. Bhaskara
 - d. None of these

11. Which one is the hottest continent?
- a. Africa
 - b. South Asia
 - c. North America
 - d. Australia
12. Which planet in the solar system is known as the "Morning Star" or "Evening Star"?
- a. Mars
 - b. Venus
 - c. Mercury
 - d. Jupiter
13. What device is used to view content in virtual reality?
- a. Smartphone
 - b. 3D glasses
 - c. VR Headset
 - d. Tablet
14. What is the SI unit of acceleration due to gravity?
- a. ms^{-2}
 - b. ms^{-3}
 - c. Kgms^{-2}
 - d. ms^{-1}
15. What atmospheric layer has most of the clouds?
- a. Mesosphere
 - b. Thermosphere
 - c. Exosphere
 - d. Troposphere
16. The most important river of Maharashtra which is a lifeline of the whole South Maharashtra is
- a. Koyna
 - b. Krishna
 - c. Warna
 - d. Wardha
17. The second most important agro based industry of India after textiles is;
- a. Dairy industry
 - b. Pulp industry
 - c. Processed food industry
 - d. Sugar industry

18. Which of the following are Milk Processing Operations?
- a. Clarification
 - b. Pasteurization
 - c. Homogenization
 - d. All of the mentioned.
19. For purifying drinking water alum is used
- a. for coagulation of mud particles
 - b. to kill bacteria
 - c. to remove salts
 - d. to remove gases
20. Isotopes of an element contains-
- a. Same number of protons and different number of neutrons.
 - b. Same number of neutrons and different number of protons.
 - c. Same number of neutrons and protons.
 - d. Different number of neutrons and protons.
21. Cast iron is manufactured in
- a. blast furnace
 - b. cupola
 - c. open hearth furnace
 - d. bessemer converter
22. Which of the following is found in an automobile's electrical system?
- a. Lighting systems
 - b. Battery
 - c. Alternators
 - d. All of the mentioned
23. The rocks which are formed due to cooling of magma at a considerable depth from earth's surface are called
- a. Plutonic rocks
 - b. Hypabyssal rocks
 - c. Volcanic rocks
 - d. Igneous rocks

24. Absolute humidity in air
- a. decreases at higher altitudes
 - b. increases at higher altitudes
 - c. remains constant at all altitudes
 - d. none of these
25. The kinematic viscosity is the
- a. ratio of absolute viscosity to the density of the liquid.
 - b. ratio of density of the liquid to the absolute viscosity
 - c. product of absolute viscosity and density of the liquid
 - d. product of absolute viscosity and mass of the liquid
26. High is an undesirable property for a good refrigerant
- a. Specific heat
 - b. Latent heat of vaporization
 - c. Viscosity
 - d. Specific vapour volume
27. Who was the first female to become the governor of an Indian state?
- a. Subba Lakshmi
 - b. Padmaja Naidu
 - c. Sarojini Naidu
 - d. Vijaya Lakshmi Pandit
28. Turbidity of raw water is a measure of
- a. suspended solids
 - b. acidity of water
 - c. B.O.D.
 - d. none of these
29. The surface Run-off is the quantity of water
- a. absorbed by soil
 - b. intercepted by buildings and vegetative cover
 - c. required to fill surface depressions
 - d. that reaches the stream channels

30. The Bandra-Worli Sea link bridge was opened for public in the year
- a. 2000
 - b. 2004
 - c. 2009
 - d. 2011
31. Who is regarded as architect of Modern Maharashtra?
- a. B. G. Kher
 - b. Yashwantrao Chavan
 - c. P. K. Sawant
 - d. Shankarao Chavan
32. Entomology is the science that studies
- a. Behaviour of human beings
 - b. Insects
 - c. The origin and history of technical and scientific terms
 - d. The formation of rock.
33. Radar is used for
- a. Locating Submerged submarines
 - b. Receiving the signals in the radio receiver
 - c. Locating geostationary satellites
 - d. Detecting and locating position of objects such as aeroplanes
34. Cellulose is the main constituent of mostfibres
- a. acrylic
 - b. spandex
 - c. synthetic
 - d. natural
35. Economic goods are
- a. all commodities that are limited in quantity as compared to their demand
 - b. Commodities that is available according to their demand
 - c. Commodities that is available more as compared to demand
 - d. None of the above

36. The curved surface area of a cylindrical pillar is 264 m^2 and its volume is 924 m^3 . Find the ratio of its diameter to its height.
 - a. 3:7
 - b. 7:3
 - c. 6:7
 - d. 7:6
37. The maximum bearing capacity of soil is that of
 - a. Hard rocks
 - b. Black cotton soil
 - c. Dry, coarse sandy soil
 - d. Fine sandy soil
38. Which of the following is also known as wood alcohol?
 - a. Methanol
 - b. Ethanol
 - c. Propanol
 - d. Butanol
39. Which of the following has fire resisting characteristics?
 - a. Marble
 - b. Limestone
 - c. Compact Sandstone
 - d. Granite
40. Which of the below is not a preliminary consideration for building a foundation?
 - a. Bearing capacity of soil
 - b. Ground water condition
 - c. Settlement control
 - d. Soil organisms
41. Which of the following items is not a path of function?
 - a. Heat
 - b. Work
 - c. Kinetic energy
 - d. Thermal conductivity
42. Presence of which among the following salts in water causes "Blue Baby Syndrome"?
 - a. Sulphates
 - b. Chlorides
 - c. Carbonates
 - d. Nitrates

43. Very small time intervals are accurately measure by
- a. white dwarfs
 - b. quartz clocks
 - c. atomic clocks
 - d. pulsars
44. Who was the first Indian President to fly in a combat aircraft?
- a. Rajendra Prasad
 - b. Shankar dyal sharma
 - c. Kocheril Raman Narayanan
 - d. Dr. A. P. J. Abdul Kalam
45. The main objective of TRYSEM was
- a. To train rural youth for self-employment
 - b. To train urban youth for self-employment
 - c. both of these
 - c. None of the above
46. Super-fluous water is also called
- a. Capillary water
 - b. Gravitational water
 - c. Hygroscopic water
 - d. All of above
47. The predominant micro-organisms in frozen foods are
- a. Bacteria
 - b. micro-coccus
 - c. yeast and moulds
 - d. None of the above
48. Which of the following plants is smallest and lightest for generating a given amount of power?
- a. Gas turbine plant
 - b. Petrol engine
 - c. Diesel engine
 - d. Solar point

49. Depreciation means
- a. closure of plant due to lock out
 - b. closure of plant due to labour trouble
 - c. loss of equipment over time due to wear and tear
 - d. destruction of a plant due to fire accident
50. Which of the following is not a Public Sector Bank?
- a. Bank of India
 - b. Bank of Maharashtra
 - c. Axis Bank
 - d. State Bank of India
51. The water-cement ratio mainly affects
- a. Colour
 - b. Strength of concrete
 - c. Weight
 - d. Cost
52. The standard size of a modular brick in India is:
- a. 190 x 90 x 90 mm.
 - b. 200 x 100 x 100 mm
 - c. 230 x 115 x 75 mm
 - d. 250 x 120 x 75 mm.
53. Which aggregate size is commonly used in RCC?
- a. 5 mm
 - b. 10-20 mm?
 - c. 50 mm
 - d. 100 mm
54. Which material is most commonly used for gears?
- a. Plastic
 - b. Rubber
 - c. Steel
 - d. Wood
55. Lubrication helps to:
- a. Increase friction
 - b. Reduce wear
 - c. Increase corrosion
 - d. Reduce efficiency

56. Which device protects an electrical circuit from overload?
- a. Capacitor
 - b. Fuse
 - c. Transformer
 - d. Motor
57. Earth wire is mainly used for:
- a. Decoration
 - b. Power transmission
 - c. Safety
 - d. Communication
58. Composting is a method of:
- a. Air pollution control
 - b. Solid waste management
 - c. Noise control
 - d. Water treatment
59. Which engineering drawing shows three-dimensional objects?
- a. Orthographic drawing
 - b. Plan
 - c. Sectional drawing
 - d. Isometric drawing
60. Engineering ethics primarily emphasize:
- a. Public safety and professional responsibility
 - b. Maximizing profit
 - c. Reducing project costs only
 - d. Completing work as quickly as possible
61. The hydraulic gradient is:
- a. Pressure difference
 - b. Head loss per unit length
 - c. Velocity
 - d. Flow rate
62. The unit weight of water is approximately:
- a. 7.85 kN/m³
 - b. 15 kN/m³
 - c. 9.81 kN/m³
 - d. 25 kN/m³

63. The Reynolds number predicts:
- a. Heat transfer
 - b. Flow regime
 - c. Pressure
 - d. Density
64. Transformers operate only on:
- a. AC
 - b. DC
 - c. Both AC and DC
 - d. Pulsating DC
65. Eutrophication is caused mainly by excess:
- a. Nitrogen and phosphorus
 - b. Oxygen
 - c. Calcium
 - d. Potassium
66. Reverse osmosis is mainly used for:
- a. Chlorination
 - b. Desalination
 - c. Sedimentation
 - d. Aeration
67. Engineering economics mainly deals with:
- a. Material science
 - b. Cost analysis and investment decisions.
 - c. Structural design
 - d. Manufacturing
68. Six Sigma aims to:
- a. Increase pollution
 - b. Improve quality by reducing defects
 - c. Increase production cost
 - d. Reduce machine speed
69. GIS stands for:
- a. General Information System
 - b. Geographic Information System
 - c. Global Industrial Standard
 - d. Graphical Internet Service

70. A three-phase induction motor operates on:
- a. Electromagnetic induction b. Electrostatic induction
 - c. Self-induction d. Mutual induction only
71. Electrical frequency is measured in:
- a. Tesla b. Henry
 - c. Hertz d. Weber
72. Which gas causes photochemical smog?
- a. Carbon dioxide b. Nitrogen oxides
 - c. Hydrogen d. Oxygen
73. The major source of indoor air pollution in rural India is:
- a. LPG b. Biomass fuel
 - c. Solar energy d. Electricity
74. Which software is widely used for Geographic Information Systems?
- a. ArcGIS b. MATLAB
 - c. AutoCAD Electrical d. ETABS
75. Sustainable engineering primarily aims to:
- a. Maximize resource consumption
 - b. Balance economic, environmental, and social considerations
 - c. Reduce project duration only
 - d. Increase material usage
76. Find the synonym for the word "Generous"
- a. Kind b. Selfish
 - c. Cruel d. Lazy

77. Find the antonym for the word "**Optimistic**"
- a. Positive
 - b. Hopeful
 - c. Pessimistic
 - d. Cheerful
78. Find the antonym for the word "**Victory**"
- a. Success
 - b. Loss
 - c. Achievement
 - d. Triumph
79. Find the synonym for the word "**Prosper**"
- a. Fail
 - b. Stop
 - c. Lose
 - d. Succeed
80. "**On cloud nine**" means:
- a. Angry
 - b. Extremely happy
 - c. Confused
 - d. Tired
81. "**Spill the beans**" means:
- a. Cook food
 - b. Waste money
 - c. Reveal a secret
 - d. Tell a lie
82. Identify the tense used in the following sentence
- We were watching television.
- a. Past Continuous
 - b. Simple Past
 - c. Present Continuous
 - d. Future Continuous
83. Identify the tense used in the following sentence
- The train had left before we arrived.
- a. Simple Past
 - b. Past Perfect
 - c. Future Perfect
 - d. Present Perfect

84. By next year, she her degree.
- a. completes b. completed
- c. will have completed d. has completed
85. The weather is very today.
- a. pleasant b. pleasantly
- c. pleasure d. pleasingly
86. The teachers congratulated
- a. we b. us
- c. our d. ours
87. The children happily in the park.
- a. play b. are playing
- c. played d. plays
88. Fill in the blanks with most suitable phrasal verbs.
The meeting was due to heavy rain.
- a. put on b. put off
- c. put out d. put up
89. Fill in the blanks with most suitable phrasal verbs.
We need to a solution to this problem.
- a. come across b. come out
- c. come up with d. come in
90. Soft skills are primarily related to:
- a. Technical knowledge
- b. Interpersonal and behavioral abilities
- c. Computer programming
- d. Machine operation

91. What soft skill involves the capacity to influence and guide others toward shared goals?
- a. Communication
 - b. Adaptability
 - c. Leadership
 - d. Decision making
92. The sender in communication is responsible for:
- a. Encoding the message
 - b. Decoding the message
 - c. Ignoring feedback
 - d. Creating barriers
93. Which of the following is not a communication barrier?
- a. Noise
 - b. Poor listening
 - c. Clear language
 - d. Cultural differences
94. A resume is primarily used for:
- a. Entertainment
 - b. Job application
 - c. Advertising
 - d. Banking
95. Conflict in a team should be:
- a. Ignored
 - b. Resolved constructively
 - c. Increased
 - d. Encouraged
96. Delegation means:
- a. Assigning responsibilities to others
 - b. Avoiding work
 - c. Working individually
 - d. Refusing tasks

97. Emotional intelligence is the ability to:
- a. Solve mathematical problems
 - b. Understand and manage emotions
 - c. Write computer programs
 - d. Repair machines
98. SWOT analysis stands for:
- a. Strengths, Weaknesses. Opportunities, Threats
 - b. Skills, Work, Objectives. Time
 - c. Study, Work, Organization, Team
 - d. Strategy, Work, Output, Target
99. Critical thinking means:
- a. Blindly accepting information
 - b. Analyzing information objectively
 - c. Avoiding decisions
 - d. Memorizing facts
100. Workplace ethics encourage:
- | | |
|-------------------------------|---------------|
| a. Respect and responsibility | b. Misconduct |
| c. Discrimination | d. Corruption |



- Rough Work -

- Rough Work -