

Seat No.

Total No. of Pages : 19

Pg. Re-Entrance Examination 2025-2026
M. Tech. (Rural Technology) Entrance
Subject Code : 71140

Day and Date : Thursday, 10-07-2025**Total Marks : 100****Time : 03.30 pm to 05.00 pm**

Instructions:

- 1) All questions are compulsory.
 - 2) Each question carries 1 mark.
 - 3) Answers should be marked in the given OMR answer 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.
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1. Where is the headquarters of the United Nations Organisation (UNO) located?
 - a. Tokyo, USA
 - b. Washington DC, USA
 - c. New York. USA
 - d. New Delhi, India
2. Who invented the Richter scale?
 - a. Charles Richter
 - b. Alfred Nobel
 - c. Anna Rajam George
 - d. Arundhati Roy
3. 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

4. Who was the first Asian winner of the Nobel Prize?
 - a. Mahatma Gandhi
 - b. Ratan Tata
 - c. Rabindranath Tagore
 - d. Bankim Chandra Chatterjee
5. Thomas Cup is associated with which sport?
 - a. Tennis
 - b. Football
 - c. Badminton
 - d. Cricket
6. Who was the first woman chief minister of India?
 - a. Annie Besant
 - b. Sarojini Naidu
 - c. Sucheta Kriplani
 - d. None of these
7. Which Country is the leading producer of Diamonds?
 - a. Russia
 - b. Qatar
 - c. Oman
 - d. Netherland
8. The sea route in India was discovered by
 - a. Columbus
 - b. Amundsen
 - c. Vasco-da-Gama
 - d. None of these
9. The decimal system was introduced by
 - a. Aryabhatta
 - b. Brahmagupta
 - c. Bhaskara
 - d. None of these
10. What is the capital of Japan?
 - a. Beijing
 - b. Tokyo
 - c. Seoul
 - d. Bangkok

11. What gas is used to extinguish fires?
 - a. Oxygen
 - b. Nitrogen
 - c. Carbon dioxide
 - d. Hydrogen
12. What is the name of the process by which plants convert sunlight into energy?
 - a. Respiration
 - b. Photosynthesis
 - c. Oxidation
 - d. Evolution
13. What chemical element is designated as "Hg"?
 - a. Silver
 - b. Tin
 - c. Copper
 - d. Mercury
14. Which one is the hottest continent?
 - a. Africa
 - b. South Asia
 - c. North America
 - d. Australia
15. How many bones are in the body of an adult human?
 - a. 330
 - b. 206
 - c. 250
 - d. 210
16. What element is the main constituent of diamonds?
 - a. Carbon
 - b. Oxygen
 - c. Silver
 - d. Gold
17. Which organ in the human body is responsible for the secretion of bile?
 - a. Liver
 - b. Kidneys
 - c. Spleen
 - d. Stomach

18. Which planet in the solar system is known as the "Morning Star" or "Evening Star"?
- a. Mars
 - b. Venus
 - c. Mercury
 - d. Jupiter
19. What is the name of the science that studies the past of life on Earth?
- a. Palaeontology
 - b. Astronomy
 - c. Anthropology
 - d. Geology
20. What chemical element forms the basis of the haemoglobin molecule responsible for the transport of oxygen in the blood?
- a. Nitrogen
 - b. Iron
 - c. Oxygen
 - d. Silver
21. What chemical element is used in the manufacture of glass?
- a. Silver
 - b. Sodium
 - c. Silicone
 - d. Oxygen
22. Which planet in the solar system has the largest diameter?
- a. Mercury
 - b. Venus
 - c. Earth
 - d. Jupiter
23. Fathometer is used to measure
- a. Earthquakes
 - b. Rainfall
 - c. Ocean depth
 - d. Sound intensity
24. In which season do we need more fat?
- a. Autumn
 - b. Spring
 - c. Winter
 - d. Summer

25. Who was the first person to walk on the moon?
- a. Yuri Gagarin
 - b. Neil Armstrong
 - c. John Glenn
 - d. Buzz Aldrin
26. What device is used to view content in virtual reality?
- a. Smartphone
 - b. 3D glasses
 - c. VR Headset
 - d. Tablet
27. Which of the following inventions is attributed to Thomas Edison?
- a. Bulb
 - b. Telephone
 - c. Computer
 - d. Rocket
28. What is the force of attraction between any two bodies by virtue of their masses is called?
- a. Electromagnetic Force
 - b. Gravitational Force
 - c. Centripetal Force
 - d. Nuclear Force
29. What is the SI unit of acceleration due to gravity?
- a. ms^{-2}
 - b. ms^{-3}
 - c. Kgms^{-2}
 - d. ms^{-1}
30. Which of the following instruments is used to measure the relative density of a liquid?
- a. Hydrometer
 - b. Hygrometer
 - c. Lactometer
 - d. Gravimeter
31. What atmospheric layer has most of the clouds?
- a. Mesosphere
 - b. Thermosphere
 - c. Exosphere
 - d. Troposphere

32. What is the safe level of noise intensity for humans?
- a. Up to 90 decibels
 - b. up to 70 decibels
 - c. up to 80 decibels
 - d. up to 100 decibels
33. What are planktons?
- a. Plants living in water
 - b. Very small plants and animals living in water
 - c. Very small animals living on land
 - d. None of these
34. The microbes that are active at low temperatures
- a. thermophiles
 - b. Mesophiles
 - c. Psychrophiles
 - d. neutrophils
35. What does UNEP stand for?
- a. United Nations Educational Plan
 - b. United Nations Environmental Protection
 - c. United Nations Environmental Programme
 - d. United Nations Environmental Policy
36. Energy sources that do not increase carbon emissions include
- a. Solar cells
 - b. Wind mills
 - c. Nuclear power plants
 - d. All of the above

37. Climate represents.....
- a. The long-term average weather and its statistical variation for a given region
 - b. Weather averaged over a year
 - c. It is a measure of variations in the amount of precipitation
 - d. None of the above
38. Which of the following materials can be recovered from the recycling of soft drink cans?
- a. Paper
 - b. Plastic
 - c. Metal
 - d. Glass
39. The non-point pollution of river water involves discharge of pollutants through
- a. urban sewage drains
 - b. industrial effluents
 - c. agricultural fields
 - d. both (a) and (b)
40. Which one of the following is the best source of generating electricity in India from the viewpoint of sustainable development?
- a. Atomic energy
 - b. Coal
 - c. Mineral oil and gas
 - d. Hydroelectricity
41. An ideal gas as compared to a real gas at very high pressure occupies
- a. More volume
 - b. Less volume
 - c. Same volume
 - d. Unpredictable behaviour

42. Temperature of a gas is produced due to
- a. Its heating value
 - b. Kinetic energy of molecules
 - c. Repulsion of molecules
 - d. Attraction of molecules
43. According to kinetic theory of gases, the absolute zero temperature is attained when
- a. Volume of the gas is zero
 - b. Pressure of the gas is zero
 - c. Kinetic energy of the molecules is zero
 - d. Specific heat of gas is zero
44. The compression ratio for the compressor is always unity.
- a. Equal to
 - b. Less than
 - c. More than
 - d. None of these
45. 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 plant
46. Pig iron is name given to
- a. Raw material to blast furnace
 - b. Product of blast furnace made by reduction of iron ore
 - c. Iron containing huge quantities of carbon
 - d. Iron in molten form in the ladles

47. When is the fluid called laminar?
- a. Low viscosity
 - b. The density of the fluid is high
 - c. Reynolds number is greater than 2000
 - d. Reynolds number is less than 2000
48. When a fluid is subjected to resistance, it undergoes a volumetric change due to
- a. Cohesion
 - b. Strain
 - c. Compressibility
 - d. Adhesion
49. Which of these is an example of mass transfer?
- a. Expansion of gas
 - b. Heat conduction in a rod
 - c. Freezing of water
 - d. Mixing of two liquids
50. Which among the following is always true for mass transfer to occur?
- a. Difference in concentration
 - b. Difference in chemical potential
 - c. Difference in pressure
 - d. Difference in temperature
51. wall is constructed in order to support load other than its own.
- a. Load supporting
 - b. Load distributing
 - c. Load bearing
 - d. Load releasing

52. are structural members design to carry and transfer transverse loads across space to support elements.
- a. Beams
 - b. Columns
 - c. Lintels
 - d. Sills
53. For construction of structures under water, the type of lime used, is
- a. Hydraulic lime
 - b. Fat lime
 - c. Quick lime
 - d. Pure lime
54. Which of the following is not required for chain surveying?
- a. Dumpy level
 - b. Pegs
 - c. Arrows
 - d. 20 m chain
55. Which of the following is the principles of surveying?
- a. Covering the entire area
 - b. Working from whole to part
 - c. Taking measurements
 - d. Determining the elevation differences
56. The sewerage system originates from
- a. house sewers
 - b. lateral sewers
 - c. branch sewers
 - d. main sewers
57. Before discharging the foul sewage into rivers, it is generally treated by
- a. screening
 - b. sedimentation.
 - c. oxidation
 - d. all the above.

58. Pick up the correct statement from the following:
- a. Run off and surface run off are the same
 - b. Run off includes the water flowing over the surface
 - c. Run off is sometimes called discharge of the river
 - d. Surface run off is sometimes called stream flow.
59. The entrained air in concrete
- a. increases workability
 - b. decreases workability
 - c. decreases resistance to weathering
 - d. increases strength
60. 1 kg weight in gravitational unit equals
- a. 8.9 N in SI system
 - b. 9.8 N in SI system
 - c. 4.5 N in SI system
 - d. 5.4 N in SI system
61. Hybridization is
- a. downward movement of water through soil
 - b. a process of tilling the land
 - c. decayed vegetable matter
 - d. cross-fertilization between two varieties
62. Which part of the computer helps to store information?
- a. disk drive
 - b. keyboard
 - c. monitor
 - d. printer
63. A persistent fall in the general price level of goods and services is known as:
- a. Deflation
 - b. Disinflation
 - c. Stagflation
 - d. Depression

64. Which of the following combinations is correct?
- a. NABARD - Industrial Loan
 - b. IDBI - Short term Loans
 - c. RBI-Long term Loans
 - d. RRB - Agricultural Finance
65. A Closed economy means:
- a. Only exports are take place
 - b. Money supply is controlled
 - c. Digital financing take place
 - d. Neither exports nor imports
66. Which of the following is not a multicellular organism?
- a. Fungi
 - b. Hydra
 - c. Spirogyra
 - d. Paramecium
67. In India and elsewhere, biomass can be obtained from
- a. Sugarcane bagasse
 - b. Groundnut shells
 - c. Rice husk
 - d. All of the above
68. Which disease is caused by Nickel?
- a. Asthma
 - b. Dermatitis
 - c. Itailtai
 - d. Learning disability
69. The sweet taste of fruits is due to
- a. Fructose
 - b. Ribose
 - c. Maltose
 - d. Lactose

70. Bacterial decomposition of biological material under anaerobic condition is:
.....
- a. Fertilization
 - b. Fermentation
 - c. Composting
 - d. Contamination
71. Air is said to be saturated when:
- a. it contains maximum content of water vapour
 - b. its pressure is minimum
 - c. its thickness is maximum
 - d. it blows over the barren land
72. Which organ is the main digester and absorber of food?
- a. Colon
 - b. Stomach
 - c. Liver
 - d. Small intestine
73. What is the chemical symbol for gold?
- a. Go
 - b. GI
 - c. Gd
 - d. Au
74. What is the process by which plants release water vapour into the atmosphere?
- a. Condensation
 - b. Photosynthesis
 - c. Transpiration
 - d. Respiration
75. Who is credited with the discovery of the laws of motion and universal gravitation?
- a. Galileo Galilei
 - b. Johannes Kepler
 - c. Isaac Newton
 - d. Albert Einstein

76. Which sentence is grammatically correct?
- a. Neither of them is going to the party.
 - b. Neither of them are going to the party.
 - c. Neither of them am going to the party.
 - d. Neither of them be going to the party.
77. Identify the conjunction in the sentence:
- "I want to go to the movies, but I don't have enough money."
- a. Warnl
 - b. go
 - c. but
 - d. enough
78. Which sentence is punctuated correctly?
- a. I enjoy cooking; it's fun.
 - b. I enjoy cooking, it's fun.
 - c. I enjoy cooking. It's fun.
 - d. I enjoy cooking: it's fun.
79. Which sentence is in the past perfect tense?
- a. She will finish her work later.
 - b. She finishes her work on time.
 - c. She had finished her work before the meeting.
 - d. She is finishing her work right now.
80. You should act bravely difficulties.
- a. in the hope of
 - b. in the rear of
 - c. in the face of
 - d. in the teeth of

81. Select the Antonym for the word **Implicit**.

- | | |
|-------------|-------------|
| a. inherent | b. absolute |
| c. specific | d. implied |

82. Select the Synonym for the word **Confusion**.

- | | |
|----------------|---------------|
| a. Intrepidity | b. Stagnation |
| c. Persual | d. Commotion |

83. Fill in the blanks with suitable relative pronoun.

The house belongs to Julie is in London.

- | | |
|------------|----------|
| a. Himself | b. Which |
| c. Who | d. their |

84. Identify the Verb from the given sentence.

We left for the mountain just before six in the morning.

- | | |
|-------------|---------|
| a. Mountain | b. Just |
| c. Before | d. Left |

85. Fill in the blanks with most suitable Phrasal Verb..

It is so dark in here, you can really your sunglasses now.

- | | |
|-------------|------------|
| a. take off | b. take on |
| c. put on | d. get off |

86. Select the correctly punctuated sentence.

- a. I can't see Varun's car, there must have been an accident.
- b. I cant see Varun's car
- c. there must have been an accident.
- d. I can't see Varun's car there must have been an accident.

87. Which one of the following best expresses the meaning of phrase TO BREAK THE ICE?
- a. To start a conversation
 - b. To start quarreling
 - c. To end up partnership
 - d. To end the hostility
88. One word substitute: **The art of beautiful handwriting**
- a. painter
 - b. Calligraphy
 - c. paleography
 - d. Draftsman
89. Complete with the correct plural:
- Scientists formulate before they carry out research.
- a. hypothesis
 - b. hypothesises
 - c. hypotheses
 - d. hypothesis
90. Select the pair which has the same relationship.
- GRAIN: SALT
- a. shard: pottery
 - b. shred: wood
 - c. blades: grass
 - d. chip: glass
91. What is emphasized as an important aspect of learning a positive attitude?
- a. Avoiding mistakes
 - b. Embracing mistakes as learning experiences
 - c. Ignoring mistakes
 - d. Denying the existence of mistakes

92. What is the importance of setting goals in developing personality?
- a. Goals are unnecessary and can hinder progress
 - b. Goals provide a roadmap for growth and development.
 - c. Goals limit potential by setting boundaries
 - d. Goals lead to dissatisfaction and disappointment
93. During interviews, we should express our views.....
- a. clearly
 - b. in a haste
 - c. aggressively
 - d. none of these
94. Unstructured interview is also called
- a. directive interview
 - b. non directive interview
 - c. collaborative approach interview
 - d. approach interview
95. The past tense form for word think
- a. thought
 - b. taught
 - c. thank
 - d. thinked
96. What type of communication is through Television?
- a. Intrapersonal Communication
 - b. Public Communication
 - c. Mass Communication
 - d. Mass media Communication
97. Which of these is a main element of non-verbal communication?
- a. Name of the listener
 - b. The volume of the speaker
 - c. Age of the speaker
 - d. Name of the speaker

98. Which of the following is a characteristic of interpersonal communication?
- a. It is both focused and unfocused
 - b. It is not participant friendly
 - c. It is philosophical
 - d. It is metaphorical
99. Which of these factors is not required for communication growth?
- a. Growth in size of organisations
 - b. Negative atmosphere
 - c. Public relations
 - d. Globalisation
100. Which of these proposals are academic in nature?
- a. Research proposals
 - b. Business proposals
 - c. Musical proposals
 - d. Personal proposals

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-- ROUGH WORK --