

Seat No.

Total No. of Pages : 19

RE-Entrance Examination 2026
Yashwantrao Chavan School of Rural Development
M. Tech. (Rural Technology)
Subject Code : 71140

Day and Date : Wednesday, 24-06-2026
Time : 10.30 AM TO 12.00 PM

Total Marks : 100

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. Indian Institute of Technology (IIT); Delhi is to set up offshore campus in which city?
 - a. Paris
 - b. Abu Dhabi
 - c. Berlin
 - d. Niger
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. Salinization is.....
 - a. Accumulation of salts in water
 - b. Accumulation of salts in soil
 - c. Accumulation of salts in body
 - d. Accumulation of salts in animals

4. The landmass of which of the following continents is the least?

- a. Africa
- b. Asia
- c. Australia
- d. Europe

5. Insulation is used to

- a. decrease heat transfer rate
- b. increase heat transfer rate
- c. none of above
- d. All the above

6. Central co-operative banks are in direct touch with

- a. Farmers
- b. State co-operative banks
- c. Land development banks
- d. Central government

7. The predominant micro-organisms in frozen foods are

- a. Bacteria
- b. micro-coccus
- c. yeast and moulds
- d. None of the above

8. Who invented the Richter scale?

- a. Charles Richter
- b. Alfred Nobel
- c. Anna Rajam George
- d. Arundhati Roy

9. Who was the first Asian winner of the Nobel Prize?

- a. Mahatma Gandhi
- b. Ratan Tata
- c. Rabindranath Tagore
- d. Bankim Chandra Chatterjee

16. Which scheme focusses on promoting aquaculture and fisheries to double exports and generate employment?
- a. PMFBY (Pradhan Mantri Fasal Bima Yojana)
 - b. PMMSY (Pradhan Mantri Matsya Sampada Yojana)
 - c. PM-KMY (Pradhan Mantri Kisan Maandhan Yojana)
 - d. PM-AASHA (Pradhan Mantri Annadata Aay Sanrakshan Abhiyan)
17. Who was the first person to walk on the moon?
- a. Yuri Gagarin
 - b. Neil Armstrong
 - c. John Glenn
 - d. Buzz Aldrin
18. 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
19. What atmospheric layer has most of the clouds?
- a. Mesosphere
 - b. Thermosphere
 - c. Exosphere
 - d. Troposphere
20. The microbes that are active at low temperatures
- a. Thermophiles
 - b. Mesophiles
 - c. Psychrophiles
 - d. Neutrophils
21. Energy sources that do not increase carbon emissions include -
- a. Solar cells
 - b. Wind mills
 - c. Nuclear power plants
 - d. All of the above

22. 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)
23. 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
24. The Lakhwar Hydro Electricity Project is built on which of the following rivers?
- a. Satluj
 - b. Yamuna
 - c. Krishna
 - d. Ganga
25. What is the process known as when substance converts from the solid to the vapour state directly?
- a. Vaporisation
 - b. Sublimation
 - c. Regelation
 - d. None of the above
26. The chief purpose of crop rotation is to check the loss of top soil
- a. by water crosion
 - b. by wind erosion
 - c. by weathering
 - d. of its mineral content
27. The Nashik city is situated by the river
- a. Godavari
 - b. Tapi
 - c. Narmada
 - d. Kaveri

28. Acrobic bacterias
- a. flourish in the presence of free oxygen
 - b. consume organic matter as their food
 - c. oxidise organic matter in sewage
 - d. All the above
29. Chipko movement was basically against
- a. Cultural pollution
 - b. Deforestation
 - c. Noise pollution
 - d. Water pollution
30. Which of the following are Milk Processing Operations?
- a. Clarification
 - b. Pasteurization
 - c. Homogenization
 - d. All of the mentioned
31. If the value of $n=0$ in the equation $pv^n = C$, then the process is called
- a. constant volume process
 - b. adiabatic process
 - c. constant pressure process
 - d. isothermal process
32. What frequency range is the High Frequency band?
- a. 100 kHz
 - b. 1 GHz
 - c. 30 to 300 MHz
 - d. 3 to 30 MHz

33. Current flows in a circuit when
- a. a switch is opened
 - b. a switch is closed
 - c. the switch is either open or closed
 - d. there is no voltage
34. Which of the following is found in an automobile's electrical system?
- a. Lighting systems
 - b. Battery
 - c. Alternators
 - d. All of the mentioned
35. What is the function of the alternator?
- a. Recharging the Battery
 - b. Voltage Regulator
 - c. Auto-ignition
 - d. None of the above
36. 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
37. Pneumatic structure contains
- a. Metal
 - b. Water
 - c. Wood
 - d. Compressed air

38. In the cement the compound quickest to react with water is
- a. Tricalcium aluminate.
 - b. Tetra calcium alumina ferrite
 - c. Tricalcium silicate
 - d. Dicalcium silicate
39. Which part interprets program instructions and initiate control operations?
- a. Input
 - b. Storage unit
 - c. Logic unit
 - d. Control unit
40. The lowest part of a structure which transmits the load to the soil is known as
- a. Super structure
 - b. Plinth
 - c. Foundation
 - d. Basement
41. The non-clog pump which permits solid matter to pass out with the liquid sewage is
- a. centrifugal pump
 - b. reciprocating pump
 - c. pneumatic ejector
 - d. none of these.
42. In India, rainfall is generally recorded at
- a. 8 A.M.
 - b. 12 Noon
 - c. 4 P.M.
 - d. 8 P.M.

43. 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.
44. In one dimensional flow, the flow
- a. is steady and uniform
 - b. takes place in straight line
 - c. takes place in curve
 - d. takes place in one direction.
45. The humidity ratio or specific humidity, is the mass of water vapour present in
- a. 1m^3 of wet air
 - b. 1m^3 of dry air
 - c. 1 kg of wet air
 - d. 1 kg of dry air
46. The first sportsperson to have the honour of "Bharat Ratna" is:
- a. Milkha Singh
 - b. Sunil Gavaskar
 - c. Dara Singh
 - d. Sachin Tendulkar
47. World consumer rights day is on;
- a. 15th June
 - b. 15th February
 - c. 15th March
 - d. 15th April
48. Turbidity of raw water is a measure of
- a. suspended solids
 - b. acidity of water
 - c. B.O.D.
 - d. none of these

49. The main purpose of reinforcement in concrete is to resist:
- a. Compression
 - b. Tension
 - c. Heat
 - d. Corrosion
50. The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg. then the weight of B is:
- a. 17 kg
 - b. 20 kg
 - c. 26 kg
 - d. 31 kg
51. Hydrographic surveys deal with the mapping of
- a. large water bodies
 - b. heavenly bodies
 - c. canal system
 - d. movement of clouds
52. For safety, the fuse wire used in the mains for household supply of electricity must be made of metal having
- a. low melting point
 - b. high resistance
 - c. high melting point
 - d. low specific heat
53. Industry lobbying, local to international rules, Quality and food safety etc includes which component of the food industry?
- a. R&D
 - b. Financial Services
 - c. Regulation
 - d. Wholesale and distribution

54. Nuclear reactors are used
- a. to produce heat for thermoelectric power
 - b. to produce fissionable material
 - c. to propel ships, submarines, aircraft
 - d. all of the above
55. A computer is portable and easy to carry by travellers is-
- a. super computer
 - b. laptop
 - c. mini computer
 - d. file servers
56. 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
57. If the area of a circle is 75.44 square em then what is the circumference of the circle?
- a. 40.2 cm
 - b. 28.9 cm
 - c. 29.2 cm
 - d. 30.8 cm
58. Three unbiased coins are tossed. What is the probability of getting at most two heads?
- a. $\frac{3}{4}$
 - b. $\frac{1}{4}$
 - c. $\frac{3}{8}$
 - d. $\frac{7}{8}$

59. 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
60. Which of the following is NOT correct about the use of Quick lime?
- a. Manufacturing of cement
 - b. Manufacture of sodium carbonate
 - c. Purification of sugar
 - d. Used to extinguish fire
61. What frequency range is the High Frequency band?
- a. 100 kHz
 - b. 1 GHz
 - c. 30 to 300 MHz
 - d. 3 to 30 MHz
62. 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
63. The non- clog pump which permits solid matter to pass out with the liquid sewage is
- a. centrifugal pump
 - b. reciprocating pump
 - c. pneumatic ejector
 - d. none of these.
64. Absolute humidity in air
- a. decreases at higher altitudes
 - b. increases at higher altitudes
 - c. remains constant at all altitudes
 - d. none of these

65. A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as
- a. Carnot cycle
 - b. Stirling cycle
 - c. Otto cycle
 - d. Diesel cycle
66. Which type of energy is stored in a stretched spring?
- a. Kinetic energy
 - b. Potential energy
 - c. Chemical energy
 - d. Heat energy
67. Which mirror is used as a rear-view mirror in vehicles?
- a. Concave mirror
 - b. Convex mirror
 - c. Plane mirror
 - d. None
68. What is the boiling point of water at sea level?
- a. 90°C
 - b. 95°C
 - c. 100°C
 - d. 110°C
69. Which gas is known as laughing gas?
- a. Nitrogen
 - b. Nitrous oxide
 - c. Carbon monoxide
 - d. Oxygen
70. Which vitamin helps in blood clotting?
- a. Vitamin A
 - b. Vitamin B
 - c. Vitamin K
 - d. Vitamin C
71. Which color has the longest wavelength?
- a. Blue
 - b. Violet
 - c. Red
 - d. Green

72. Which substance is used to test acidity/basicity?
- a. Salt
 - b. Indicator
 - c. Water
 - d. Metal
73. Which disease is caused by bacteria?
- a. Malaria
 - b. Tuberculosis
 - c. Dengue
 - d. Measles
74. Which color is at the center of the visible spectrum?
- a. Red
 - b. Green
 - c. Blue
 - d. Violet
75. Which acid is found in vinegar?
- a. Citric acid
 - b. Acetic acid
 - c. Lactic acid
 - d. Sulphuric acid
76. Identify the tense used in the following sentence
They will have been writing their letters.
- a. Future Perfect continuous
 - b. Future continuous
 - c. Present Perfect continuous
 - d. Present Perfect
77. Many shops were set up inenclosed area.
- a. a
 - b. an
 - c. the
 - d. none of these

84. Fill in the blanks with suitable relative pronoun.

The book you gave me is very interesting.

- a. who
- b. whom
- c. which
- d. whose

85. Fill in the blanks with most suitable verbs.

The committee divided in their opinion.

- a. is
- b. are
- c. was
- d. has

86. Fill in the blanks with most suitable phrasal verbs.

The meeting was due to heavy rain.

- a. put on
- b. put off
- c. put up
- d. put out

87. Which one of the following best expresses the meaning of "Once in a blue moon"?

- a. Frequently
- b. Rarely
- c. Always
- d. Never

88. Select the pair which has the same relationship.

AUTHOR: BOOK:: ARTIST:

- a. Music
- b. Painting
- c. Dance
- d. Song

96. Critical thinking means:
- a. Accepting everything
 - b. Analyzing and evaluating information
 - c. Ignoring problems
 - d. Memorizing facts
97. Which skill helps in resolving conflicts?
- a. Listening skill
 - b. Fighting skill
 - c. Ignoring skill.
 - d. Writing skill
98. is a system of arbitrary signals, such as voice sounds, gestures, or written symbols.
- a. Interpretation
 - b. Language
 - c. Message
 - d. Media
99. A holiday is declared in organizations by-----.
- a. a notice
 - b. a circular
 - c. a memo
 - d. an instruction sheet
100. Oral business presentation skill showcases all of the following except
- a. extent of knowledge
 - b. logical thinking
 - c. ethical qualities
 - d. range of your ideas and your confidence



ROUGH WORK