

Seat No.	
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P.G. Entrance Examination, June - 2022**M.Tech. (Rural Technology) (YCSR)****Sub. Code: 71140****Day and Date : Saturday, 11-06-2022****Total Marks : 100****Time : 1.00 p.m. to 2.30 p.m.**

- Instructions :**
- 1) All questions are compulsory.
 - 2) Each question carries one 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.

- 1) The President can dissolve the Lok Sabha on _____
 - A) Advice of the Prime Minister
 - B) Advice of the Chief Justice of India
 - C) Recommendation of Lok Sabha
 - D) Recommendation of the Rajya Sabha
- 2) Which of the following is found in an automobile's electrical system?
 - A) Lighting systems
 - B) Battery
 - C) Alternators
 - D) All of the mentioned
- 3) How is milk pasteurized?
 - A) Low temperature, Long time
 - B) High temperature, Short time
 - C) Ultrahigh temperature
 - D) All of the mentioned

P.T.O.

- 4) With respect to the definition of an allied industry, which is an allied industry with the food industry?
- A) Explosives Industry B) Packaging Industry
C) Jute Industry D) Leather Industry
- 5) The thermal efficiency of diesel engines is about
- A) 15%
B) 30%
C) 50%
D) 70%
- 6) Materials with lots of free electrons called
- A) Conductors
B) Insulators
C) Semiconductors
D) Filters
- 7) The brain of any computer system is
- A) ALU
B) Memory
C) CPU
D) Control Unit
- 8) Heating of water under atmospheric is an _____ process.
- A) Isochoric
B) Isobaric
C) Adiabatic
D) Isothermal

- 9) Find the antonym for the word Widely
 - A) Spaciously
 - B) Broad based
 - C) Limitedly
 - D) Narrowly
- 10) Find the antonym for the word Terrible
 - A) Soothing
 - B) Scaring
 - C) Horrible
 - D) Frightening
- 11) Reading is a ____ process.
 - A) Encoding
 - B) Listening
 - C) Decoding
 - D) Talking
- 12) ____ is an aggressive behavior and most likely bring a negative response from the speaker.
 - A) Interrupting
 - B) Yawning
 - C) Slapping
 - D) Dancing
- 13) Malaria is caused by ____
 - A) Bacteria
 - B) Mosquito
 - C) Protozoa
 - D) Virus
- 14) What do you mean by the demand of a commodity?
 - A) Desire for the commodity
 - B) Need for the commodity
 - C) Quantity demanded of that commodity
 - D) Quantity that consumers are able and willing to buy at various prices during any particular period of time
- 15) What is the function of the alternator?
 - A) Recharging the Battery
 - B) Voltage Regulator
 - C) Auto-ignition
 - D) None of the above

- 16) The amount of heat required to raise the temperature of the unit mass of gas through one degree at constant volume is called
- A) specific heat at constant volume
 - B) specific heat at constant pressure
 - C) kilo Joule
 - D) none of these
- 17) 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
- 18) Central co-operative banks are in direct touch with
- A) Farmers
 - B) State co-operative banks
 - C) Land development banks
 - D) Central government
- 19) The function of water pump is to _____
- A) transfer air from lower height to higher height
 - B) transfer air from higher height to lower height
 - C) transfer water from higher height to lower height
 - D) transfer water from lower height to higher height
- 20) Which of the following is the lightest and most volatile liquid fuel?
- A) Gasoline
 - B) Kerosene
 - C) Fuel oil
 - D) None of above
- 21) The diesel engines are also known as _____ engines.
- A) Compression ignition
 - B) Spark ignition
 - C) Both (a) and (b)
 - D) None of above

- 22) Full form of COD is;
- A) Catalytic Oxygen Demand B) Chemical Oxygen Demand
C) Colloidal Oxide Demand D) None of these
- 23) In a refrigerating machine, heat rejected is ____ heat absorbed.
- A) equal to B) less than
C) greater than D) none of above
- 24) Hydroelectric power plant converts _____
- A) Mechanical energy to chemical energy
B) Hydraulic to mechanical to electrical energy
C) Chemical energy to mechanical energy
D) None of above
- 25) What is the full form of GST
- A) Goods and Services Tax B) Goods and Sales Tax
C) Gross Service Tax D) Goods and Stability Tax
- 26) 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
- 27) R.T.O. Means
- A) Rail Transport Officer B) Road Transport Officer
C) Radio Transmission Officer D) All of the above
- 28) Find the correct spelt word
- A) Centrefuge B) Centrifuse
C) Centifuse D) Centrifuge

- 29) Find the correct spelt word
- | | |
|---------------|--------------|
| A) Adverisity | B) Advercety |
| C) Adversity | D) Advercity |
- 30) Find the synonym for the word FAKE
- | | |
|----------------|--------------|
| A) Original | B) Imitation |
| C) Trustworthy | D) Loyal |
- 31) Find the synonym for the word WARRIOR
- | | |
|------------|-----------|
| A) Soldier | B) Sailor |
| C) Pirate | D) Spy |
- 32) Which of the following is a rock?
- | | |
|-----------|----------------------|
| A) quartz | B) mica |
| C) gypsum | D) none of the above |
- 33) Infiltration is the
- A) movement of water through the soil
- B) absorption of water by soil surface
- C) both (a) and (b)
- D) none of these
- 34) Which of the following is used to measure the discharge?
- A) current meter
- B) venturi meter
- C) pitot tube
- D) hotwire anemometer
- 35) Washing soda is the common name for _____
- | | |
|-----------------------|------------------------|
| A) Sodium carbonate | B) Calcium bicarbonate |
| C) Sodium bicarbonate | D) Calcium carbonate |

- 36) Ground water is accessed by _____
- A) Drilling wells B) Drip irrigation
C) Check bunds D) Constructing canals
- 37) If the resistance in a circuit with a constant voltage increases, the current will,
- A) Increase B) Decrease
C) Stay the same D) None of above
- 38) As you go down into a well, your weight _____
- A) Increases slightly B) Decreases slightly
C) Remains exactly the same D) None of the above
- 39) Pollution which occurs by poor disposal of waste and rubbish is classified as _____
- A) Visual pollution B) Noise pollution
C) Land pollution D) Thermal pollution
- 40) Ecology deals with _____
- A) Birds
B) Cell formation
C) Relation between organisms and their environment
D) Tissues
- 41) When a gas is turned into a liquid , the process is called
- A) Condensation B) Evaporation
C) Deposition D) Sublimation

- 42) A shopkeeper sold an article for Rs.2500. If the cost price of the article is 2000, find the profit percent.
- A) 23
B) 25
C) 27
D) 29
- 43) Which one of the following is not a prime number?
- A) 31
B) 61
C) 71
D) 91
- 44) Exchange of outgoing and incoming radiations that keeps Earth Warm is known as
- A) greenhouse effect
B) radiation effect
C) infrared effect
D) ozone layer depletion
- 45) Natural source of pollution is
- A) rain forest
B) mining for minerals
C) forest fire
D) falling of meteoroids
- 46) FM in radio means
- A) Fluid Mechanics
B) Frequency Machine
C) Frequency modulation
D) Fundamental Modulation
- 47) The state having a largest area of forest cover in India is
- A) Arunachal Pradesh
B) Haryana
C) Madhya Pradesh
D) Assam
- 48) Layer of atmosphere in which Ozone layer lies is
- A) Exosphere
B) Mesosphere
C) Troposphere
D) Stratosphere
- 49) Wood is the main raw material for the manufacture of
- A) paper
B) paint
C) ink
D) gun power

- 50) Of the various non-conventional energy sources that are being tapped, which has the largest potential?
- A) Solar Power
 - B) Wind power
 - C) Geothermal Power
 - D) None of these
- 51) Plastic is
- A) Ferrous Material
 - B) Metal
 - C) Non-Ferrous Material
 - D) None of these
- 52) HDFC is name of
- A) Chemical Industry
 - B) Financial institution
 - C) Corporation
 - D) Bureau
- 53) 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
- 54) Persons working in cement plants and limestone quarries are more prone to disease like
- A) cancer
 - B) asthma
 - C) silicosis
 - D) fluorosis (bone disease)
- 55) Find the antonym for the word ARTIFICIAL
- A) Red
 - B) Natural
 - C) Truthful
 - D) Solid
- 56) Find the antonym for the word EXPAND
- A) convert
 - B) condense
 - C) congest
 - D) conclude
- 57) Tetraethyl lead is used as
- A) pain killer
 - B) fire extinguisher
 - C) mosquito repellent
 - D) petrol additive

- 58) Her thinking leans _____ democracy.
A) with
B) towards
C) for
D) none of these
- 59) Which of these must be avoided for effective communication?
A) Sharing of activity
B) Listening
C) Ambiguity
D) Politeness
- 60) Choose the correct order of the sentence 1. medicine 2.A 3. Neeta 4. Given 5. was
A) 51423
B) 25431
C) 35421
D) 42531
- 61) Find the synonym for the word RECTIFY
A) To build
B) Correct
C) Destroy
D) To command
- 62) Choose the correct order of sentence 1. him 2.The 3.To 4. Charge 5. handover
A) 42531
B) 51342
C) 41352
D) 52431
- 63) Choose the correct meaning of proverb for the following sentence To beg the question
A) To refer to
B) To take the granted
C) To raise objections
D) To be discussed
- 64) Find out correct phrase for word which is in bracket. They (were all shocked at) his failure in the competition.
A) were shocked at all
B) had all shocked at
C) had all shocked by
D) no correction required

- 65) Fill in the blank with proper word. Our armed forces are ____ those of any other country in the world.
- A) Superior than B) Superior to
C) Superior from D) Superior of
- 66) Fill in the blank with proper word. The rain comes _____ the clouds.
- A) in B) near
C) from D) under
- 67) _____ listening means learning through conversation.
- A) Evaluative B) Appreciative
C) Dialogic D) Empathetic
- 68) Most soluble in water is
- A) sulphur B) camphor
C) coconut oil D) sugar
- 69) In Oral Presentation outside your organisation you must first give the audience a ____ of your organization.
- A) Flash back B) Background
C) Front view D) Foreword view
- 70) Effective paraphrasing avoids the risk of
- A) Changing B) Noting
C) Copying D) Plagiarism
- 71) The information which is transferred to the receiver has to be interpreted this process is called
- A) Encoding B) Decoding
C) Opening D) Closing
- 72) Communication strengthens _____ & _____ relationship is an organization
- A) Employer - father B) Employer - Employee
C) Mother - Employer D) Mother - Child

- 73) _____ to all these factors that disrupt the communication
- A) Nonsense
 - B) Noise
 - C) Nowhere
 - D) Nobody
- 74) What do you mean by the supply of goods?
- A) Stock available for sale
 - B) Total stock in the warehouse
 - C) The actual production of the goods
 - D) Quantity of the goods offered for sale at a particular price per unit of time
- 75) Which provides energy very slowly?
- A) Carbohydrates
 - B) Fats
 - C) Proteins
 - D) Fibers
- 76) The asbestos cement sewers are
- A) Light in weight
 - B) Not structurally strong to bear large compressive stress
 - C) Susceptible to corrosion by sulphuric acid
 - D) All of above
- 77) The gas which may cause explosion in sewers, is
- A) Carbon dioxide
 - B) Methane
 - C) Ammonia
 - D) Carbon monoxide
- 78) Aeration of water is done to remove
- A) odor
 - B) color
 - C) bacteria
 - D) hardness
- 79) PDF extension usually refers to
- A) Post dispatch findings
 - B) Portable document format
 - C) Portable dispatch format
 - D) All of the above

- 80) Sunlight
- A) helps growth of bacteria
 - B) impedes growth of algae
 - C) increases dissolved oxygen content
 - D) reduces turbidity
- 81) A fully saturated soil is said to be
- A) one phase system
 - B) two phase system with soil and air
 - C) two phase system with soil and water
 - D) three phase system
- 82) If the voids of soil mass are full of air only, the soil is termed as
- A) air entrained soil
 - B) partially saturated soil
 - C) dry soil
 - D) dehydrated soil
- 83) If the weight of a body immersed in a fluid exceeds the buoyant force, then the body will
- A) rise until its weight equals the buoyant force
 - B) tend to move downward and it may finally sink
 - C) float
 - D) none of the above
- 84) High _____ is an undesirable property for a good refrigerant.
- A) specific heat
 - B) latent heat of vaporization
 - C) viscosity
 - D) specific vapor volume
- 85) An atom's atomic number is determined by the number of :
- A) Neutrons minus protons
 - B) Protons
 - C) Electrons
 - D) Neutrons

- 86) Cast iron is a
A) ductile material
B) malleable material
C) brittle material
D) tough material
- 87) Brass is an alloy of
A) copper and zinc
B) copper and tin
C) copper, tin and zinc
D) none of these
- 88) In plane surveying
A) the curvature of earth is taken into consideration
B) the surveys extend over small areas
C) the surveys extend over large areas
D) none of above
- 89) Decibel is the unit for
A) speed of light
B) radio wave frequency
C) intensity of sound
D) intensity of heat
- 90) 'LMPG' extension refers usually to what kind of file?
A) Word Perfect Document file
B) MS Office document
C) Animation/movie file
D) Image file
- 91) What is the range of pH of alkaline water?
A) 7-14
B) 0-6
C) 0-14
D) none of above
- 92) The solid waste which is easily degradable that is called as
A) Plastic waste
B) Inorganic waste
C) Organic waste
D) All of above
- 93) Hydrology is the science which deals with
A) rain water
B) river water
C) sea water
D) Surface and underground water

- 94) Maximum amount of gas found in air is
A) Oxygen
B) Carbon Dioxide
C) Hydrogen
D) Nitrogen
- 95) The major contributor of Carbon monoxide is
A) Motor Vehicles
B) Industrial processes
C) Stationary fuel combustion
D) None of the above
- 96) Which of the following material has maximum ductility?
A) Mild steel
B) Copper
C) Nickel
D) Aluminium
- 97) The compressed air may be used
A) in gas turbine plants
B) for operating pneumatic drills
C) in starting and supercharging of I.C. engines
D) all of the above
- 98) Cast iron is a
A) ductile material
B) malleable material
C) brittle material
D) tough material
- 99) The inlet pressure is always _____ the discharge pressure.
A) equal to
B) less than
C) more than
D) none of above
- 100) A voltage will influence the current only if the circuit is the
A) Open
B) Insulated
C) High resistance
D) Closed



Rough Work