

ITI Quiz W/c - 05- May-2026 09:47 AM

Q. ID: ITISKILL7464AI

May 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 155 Mins

Total Marks: 50

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1. What is the total cost of painting of a class room including ceiling, if the size of length is 6m, breadth is 5m and height is 4m. (Painting + labour cost Rs.150/- per sq.m)

- A) Rs.16700/- B) Rs.15000/-
C) Rs.18700/- D) Rs.17700/-

Answer: D) Rs.17700/-

2. What is the area of the circle, if the circumference of the circle is 44cm?

- A) 154 cm^2 B) 129 cm^2
C) 128 cm^2 D) 130 cm^2

Answer: A) 154 cm^2

3. Which standard schedule of rates to be considered for estimation?

- A) Standard schedule of rates of the average of last 5 years B) Standard schedule of rates of the last year
C) Standard schedule of rates of the average of the last 10 years D) Standard schedule of rates of the current year

Answer: D) Standard schedule of rates of the current year

4. What is known for the temperature at which any solid melts into liquid?

- A) Latent heat of vaporisation B) Melting point
C) Boiling point D) Latent heat of fusion

Answer: B) Melting point

5. What is called the ratio between the density of a substances density of water at 4 Degree Centigrade?

- A) Specific gravity B) Weight
C) Density D) Mass

Answer: A) Specific gravity

6. Which is the unit electrical power?

- A) Volts B) Ohms
C) Watts D) Ampere

Answer: C) Watts

7. What is the tensile strain if a force of 3.2 KN is applied to a bar of original length 2800 mm extends the bar by 0.5 mm?

- A) 0.0001968 B) 0.0001687
C) 0.0001867 D) 0.0001786

Answer: D) 0.0001786

8. How many hours will take for a 100 watts bulb to consume 1 kwh energy? $W = 1 \text{ Kwh}$ $P = 100 \text{ Watts}$ $t = \text{___ Hours}$

- A) 24 hours B) 12 hours
C) 18 hours D) 10 hours

Answer: D) 10 hours

9. What is the height of the building if a ladder at 45 Degree touches the building placed 16 m from the base of the building?

- A) 15 m B) 17 m
C) 16 m D) 18 m

Answer: C) 16 m

10. How the years is denoted in simple interest calculations?

- A) r B) I
C) n D) P

Answer: C) n

11. Convert 52% into fraction?

- A) $(13/25)$ B) $(9/25)$
C) $(17/25)$ D) $(11/25)$

Answer: A) $(13/25)$

12. What is the value of x if $13+x=20$?

- A) 7 B) 8
C) 13 D) 9

Answer: A) 7

13. What is the diameter of the circle, if the area of the circle is 78.5 cm^2 ?

- A) 5 cm B) 5.5 cm
C) 10 cm D) 15 cm

Answer: C) 10 cm

14. What is the density of aluminium?

- A) 2.7 g/cm^3 B) 3.7 g/cm^3
C) 4.7 g/cm^3 D) 5.7 g/cm^3

Answer: A) 2.7 g/cm^3

15. What is the value of $x^2 - y^2$ if $(x+y) = 9, (x - y) = 4$?

- A) 36
C) 65
- B) 46
D) 13

Answer: A) 36

16. What is equal to $\cos \theta$?

- A) Opposite side/Hypotenuse
C) Adjacent Side/Hypotenuse
- B) Hypotenuse/Opposite Side
D) Hypotenuse/Adjacent Side

Answer: C) Adjacent Side/Hypotenuse

17. What is the equivalent unit for 1 horse power in metric system?

- A) 78 kg.m/sec
C) 76 kg.m/sec
- B) 77 kg.m/sec
D) 75 kg.m/sec

Answer: D) 75 kg.m/sec

18. Which is the short form of profit and loss statement?

- A) P & L
C) L & P
- B) PR & LS
D) PRO & LOS

Answer: A) P & L

19. Which is mineral insulator

- A) Porcelain
C) Mica
- B) Quartz
D) Glass

Answer: C) Mica

20. What is the maturity amount if Rs.20000 is deposited at 5% compound interest per annum for 2 years?

- A) Rs.25000
C) Rs.22500
- B) Rs.22050
D) Rs.22000

Answer: B) Rs.22050

21. What is the centre of gravity of a right circular cone from its base?

- A) $h/4$
C) $h/5$
- B) $h/3$
D) $h/2$

Answer: A) $h/4$

22. What is called for the amount of heat required to raise the temperature of unit mass of a substance through 1 Degree C?

- A) Sensible heat
C) Mixing of heat
- B) Specific heat
D) Latent heat

Answer: B) Specific heat

23. Which is example for second order lever?

- A) Bottle opener
C) Human forearm
- B) A pair of scissors
D) Common balance

Answer: A) Bottle opener

24. How many watts for 1 horse power in metric system?

- A) 745.5 watts
C) 755.5 watts
- B) 735.5 watts
D) 725.5 watts

Answer: B) 735.5 watts

25. What is the definition of ratio?

- A) Relation of two quantities of the different kind
C) Inequality between two ratios
- B) Equality between two ratios
D) Relation of two quantities of the same kind

Answer: D) Relation of two quantities of the same kind

26. What is term used for 2 x linear expansion?

- A) Co-efficient of linear expansion
C) Co-efficient of friction
- B) Co-efficient of cubical expansion
D) Co-efficient of superficial expansion

Answer: D) Co-efficient of superficial expansion

27. What metals contained in brass alloy?

- A) Copper and zinc
C) Copper and lead
- B) Copper and tin
D) Copper and aluminium

Answer: A) Copper and zinc

28. Which one is related to estimation of work?

- A) Hand book
C) Information table
- B) Bill of material
D) Packing

Answer: B) Bill of material

29. What is the value of x if $(x + 2) / 2 = 19$?

- A) 33
C) 36
- B) 35
D) 38

Answer: C) 36

30. Which affects the centre of gravity of the object

- A) Weight
C) Shape
- B) Density
D) Mass

Answer: D) Mass

31. What is the value in degree centigrade for 20 Degree F?

- A) -6.67 Degree C
C) -6.37 Degree C
- B) -6.57 Degree C
D) -6.47 Degree C

Answer: A) -6.67 Degree C

32. How many watts for 1 horse power in British system?

- A) 746 watts
C) 756 watts
- B) 736 watts
D) 726 watts

Answer: A) 746 watts

33. What is the safe stress if the ultimate stress of a material is 35 kg/mm^2 and factor of safety is 5?

- A) 7
C) 1.43
- B) 0.7
D) 0.143

Answer: A) 7

34. What is the change in length per unit original length per degree rise in temperature is called?

- A) Co-efficient of linear expansion
C) Co-efficient of cubical expansion
- B) Co-efficient of friction
D) Co-efficient of superficial expansion

Answer: A) Co-efficient of linear expansion

35. Which alloy steel is using for making precious instrument?

- A) Vanadium
C) Manganese steel
- B) Invar steel
D) Silicon steel

Answer: B) Invar steel

36. Where the centre of gravity of a circle lies?

- A) Any where on its circumference
C) Any where on its diameter
- B) At its centre
D) Any where on its radius

Answer: B) At its centre

37. What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

- A) 669 Joules
C) 649 Joules
- B) 639 Joules
D) 659 Joules

Answer: A) 669 Joules

38. Which property of metal has its power of returning to its original shape after the applied force is released?

- A) Plasticity
C) Tenacity
- B) Elasticity
D) Malleability

Answer: B) Elasticity

39. What percentage of water absorbed by a good building stone?

- A) Less than 5%
C) Less than 8%
- B) Less than 10%
D) Less than 20%

Answer: A) Less than 5%

40. Which is thermosetting plastic?

- A) Vinyl polymers
C) Polystyrenes
- B) Melamine resins
D) Celluloid

Answer: B) Melamine resins

41. Which process produce equilibrium conditions?

- A) Annealing and Normalising
C) Normalising and Tempering
- B) Normalising and Tempering
D) Annealing and Hardening

Answer: A) Annealing and Normalising

42. What is the term, for the details of materials, brand name, grade of quality, rating of current and voltage etc.?

- A) Drawing
C) Price catalogue
- B) Raw materials
D) Specification of materials

Answer: D) Specification of materials

43. Who prepares the cost of estimation?

- A) Estimator
C) Operator
- B) Draughts man
D) Quality Inspector

Answer: A) Estimator

44. What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

- A) 15
C) 6
- B) 25
D) 10

Answer: C) 6

45. What is the weight of the iron ball has volume of 250 cc and density 7.5 gm/cc?

- A) 1975 gram
C) 1785 gram
- B) 1750 gram
D) 1875 gram

Answer: D) 1875 gram

46. What is the diagonal of a square plate whose side is 28 cm?

- A) 39.59 cm
C) 39.49 cm
- B) 39.39 cm
D) 39.29 cm

Answer: A) 39.59 cm

47. Which insulating material is most widely used in refrigerators?

- A) Thermocole
C) Cork sheet
- B) Polyurethane
D) Glass wool

Answer: B) Polyurethane

48. Which rubber is used as insulator for power cables and control wires?

- A) Silicon
C) Hypalone
- B) Nitrite butadiene
D) Butyl

Answer: A) Silicon

49. What is the purpose of tempering a steel?

- A) To remove the ductility
C) To increase the brittleness
- B) To increase the hardness
D) To reduce the brittleness

Answer: D) To reduce the brittleness

50. What is the total cost of Air-conditioners installed in a college, 40 class room-each 1 Air-conditioner, Computer lab 5 Air- conditioners and conference hall 5 Air-conditioners (Cost of one air conditioner Rs.30000/- including installation)?

A) Rs. 15 lakhs
C) Rs.10 lakhs

B) Rs. 12 lakhs
D) Rs. 20 lakhs

Answer: A) Rs. 15 lakhs
