

ITI Quiz W/C- 06- May-2026 02:30 PM

Q. ID: ITISKILL65200Y

May 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 155 Mins

Total Marks: 50

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1. What is the square root of 0.017?

- A) 0.00001 B) 0.13
C) 0.001 D) 0.000001

Answer: B) 0.13

2. What is colour of a metal piece when heated to 250 Degree C while doing the tempering process?

- A) Blue B) Brown
C) Purple D) Pale

Answer: B) Brown

3. Which one is a poor heat insulator?

- A) Rubber B) Cork
C) Saw dust D) Glass

Answer: D) Glass

4. What is the carbon percentage in low carbon steel?

- A) 0.02% to 0.03% B) 0.15% to 0.25%
C) 0.25% to 0.50% D) 0.50% to 1.50%

Answer: B) 0.15% to 0.25%

5. What is the area of a circular surface if the radius is 14 cm?

- A) 612.25 cm^2 B) 612.44 cm^2
C) 614.5 cm^2 D) 615.44 cm^2

Answer: D) 615.44 cm^2

6. What is the length of arc of a sector, whose radius is 15 cm and angle is 40 Degree?

- A) 9.75 cm B) 9.8 cm
C) 10.60 cm D) 10.4 cm

Answer: D) 10.4 cm

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

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

Answer: C) 39.59 cm

8. What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

- A) 3 W B) 1.2 W
C) 10 W D) 12 W

Answer: D) 12 W

9. What is the mechanical advantage, if a load of 1000 kg is lifted by a simple machine and effort applied is 250 kg?

- A) 6 B) 4
C) 8 D) 3

Answer: B) 4

10. What is the mass if the density of a body is 7.6 g/cm^3 and its volume is 25 cm^3 ?

- A) 190 grams B) 220 grams
C) 200 grams D) 210 grams

Answer: A) 190 grams

11. What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

- A) 20.98 cm^2 B) 20.89 cm^2
C) 20.93 cm^2 D) 20.39 cm^2

Answer: C) 20.93 cm^2

12. Which is example for second order lever?

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

Answer: A) Bottle opener

13. Which is example for first order lever?

- A) A pair of scissors B) A wheel barrow
C) Fire tongs D) Lime squeezer

Answer: A) A pair of scissors

14. What is the centre of gravity of a semi circle of diameter 12 cm?

- A) 3.25 cm B) 2.75 cm
C) 2.54 cm D) 2.24 cm

Answer: C) 2.54 cm

15. Which is equal to electric power?

- A) $R^2 I$ watts B) $I^2 R$ watts
C) RI D) IRA

Answer: B) $I^2 R$ watts

16. What is the area of a square whose side is 18 cm?

- A) 26 cm^2 B) 36 cm^2
C) 72 cm^2 D) 324 cm^2

Answer: D) 324 cm^2

17. What is the total surface area of a cylinder having radius 2 metres and height 5 metres?

- A) 92 sq.metre
B) 88 sq.metre
C) 86 sq.metre
D) 90 sq.metre

Answer: B) 88 sq.metre

18. What is the young's modulus if a wire of 2m long, 0.8 mm² in cross section increases its length by 1.6 mm on suspension of 8 kg weight from it?

- A) 1.25 kg/mm²
B) 125 kg/mm²
C) 12.5 kg/mm²
D) 12500 kg/mm²

Answer: D) 12500 kg/mm²

19. What are fundamental units?

- A) Length, Mass, Area
B) Length, Mass, Volume
C) Length, Mass, Time
D) Length, Pressure, Volume

Answer: C) Length, Mass, Time

20. What is the specific gravity of the metal, if it weighs 6.5 kgf in air and 3.5 kgf in water?

- A) 1.166
B) 3.166
C) 2.166
D) 6.166

Answer: C) 2.166

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

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

Answer: B) 75 kg.m/sec

22. Simplify: $(17.49 \times 5.2) / (6.5)$

- A) 13.99
B) 13.69
C) 13.89
D) 13.79

Answer: A) 13.99

23. What denotes letter M in MKS system?

- A) Millimeter
B) Micron
C) Mile
D) Meter

Answer: D) Meter

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

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

Answer: C) Co-efficient of superficial expansion

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

- A) P
B) r

C) I
D) n

Answer: D) n

26. What is the value of $5x^4 / 5x^3$?

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

Answer: A) x

27. What is the distance of the load from the fulcrum called?

- A) Effort arm
B) Power arm
C) Effort
D) Load arm

Answer: D) Load arm

28. What is term called for 3 x linear expansion?

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

Answer: D) Co-efficient of cubical expansion

29. How much quantity of heat is required to raise the temperature of 300 grams of copper (sp.heat 0.092 cal/gram) from 25 Degree C to 75 Degree C in Kcal?

- A) 207 Kcal
B) 138 Kcal
C) 1.38 Kcal
D) 2.07 Kcal

Answer: C) 1.38 Kcal

30. What is the resistance? $I = 11.5$ Amps $V = 380$ Volts $R = \underline{\hspace{2cm}}$ Ohms

- A) 23 ohms
B) 13 ohms
C) 43 ohms
D) 33 ohms

Answer: D) 33 ohms

31. What is the expanded form of $(a+b)^2$?

- A) $(-a^2 - 2ab + B) a^2 - 2ab + b^2$
B) $a^2 - 2ab + b^2$
C) $a^2 + 2ab + D) a^2 + 2ab - b^2$
D) $a^2 + 2ab - b^2$

Answer: C) $a^2 + 2ab + b^2$

32. Which is thermosetting plastic?

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

Answer: B) Melamine resins

33. Which IE rules are to be verified on completion of wiring on any new installation?

- A) IE Rules, 1960
B) IE Rules, 1961
C) IE Rules, 1956
D) IE Rules, 1967

Answer: C) IE Rules, 1956

34. What is the value of $(a^5)^7$?

- A) a^2 B) a^2
C) a^{22} D) a^{35}

Answer: D) a^{35}

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

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

Answer: B) $h/4$

36. Which state of equilibrium's example is A cone resting on its tip?

- A) Stable B) Neutral
C) Unstable D) Horizontal

Answer: C) Unstable

37. What is the selling price, if the profit is 5% for a computer table bought at Rs.1150/- with Rs.50/- as a transport charge?

- A) 1620 B) 1160
C) 1260 D) 1060

Answer: C) 1260

38. What is an over estimate?

- A) No work started as per estimate B) When an estimate perfectly matches the actual estimate
C) When an estimate is fell short of the actual estimate D) When an estimate is exceeded to actual estimate

Answer: D) When an estimate is exceeded to actual estimate

39. What are the various stages of heat treatment?

- A) Quenching, Cooling and Heating B) Heating, Soaking and Quenching
C) Heating, Cooling and Quenching D) Soaking, Quenching and Cooling

Answer: B) Heating, Soaking and Quenching

40. Which affects the centre of gravity of the object

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

Answer: C) Mass

41. What is the name of the point at which all the weight of the body concentrated?

- A) Initial point B) Central point
C) Centroid D) Centre of gravity

Answer: D) Centre of gravity

42. What is the efficiency of a simple screw jack having velocity ratio is 314.2 and mechanical advantage is 220?

- A) 0.65 B) 0.6
C) 0.7 D) 0.75

Answer: C) 0.7

43. Which instrument is used to measure temperatures of red hot metals up to 3000 Degree C?

- A) Radiation pyrometer B) Thermoelectric pyrometer
C) Bimetal thermometer D) Alcohol thermometer

Answer: A) Radiation pyrometer

44. How the profit / gain is expressed?

- A) \$ B) Rs.
C) * D) %

Answer: D) %

45. Which property of material enables to formation of permanent deformation without fracture?

- A) Elasticity B) Brittleness
C) Ductility D) Plasticity

Answer: D) Plasticity

46. What is called if a body does not change its position with respect to its surroundings?

- A) Body at rest B) Body at motion
C) Velocity D) Speed

Answer: A) Body at rest

47. What is the value for specific heat of water

- A) 1 B) 3
C) 4 D) 2

Answer: A) 1

48. What is the area of the circle if the radius is 10 cm?

- A) 30.4 cm^2 B) 3.14 cm^2
C) 314 cm^2 D) 31.4 cm^2

Answer: C) 314 cm^2

49. Which is the example for statically induced emf?

- A) Refrigerator B) Transformer
C) Generator D) Motor

Answer: B) Transformer

50. What is the term, if an article is purchased?

- A) Margin price B) Discount price
C) Selling price D) Cost price

Answer: D) Cost price