

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

Q. ID: ITISKILL65200Y

May 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 155 Mins

Total Marks: 50

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Student Name: _____ Roll No: _____

1. Which affects the centre of gravity of the object

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

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

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

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

10. Which is equal to electric power?

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

3. 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) 20.39 cm^2
D) 20.93 cm^2

11. 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) 2.07 Kcal
B) 1.38 Kcal
C) 207 Kcal
D) 138 Kcal

4. What is the square root of 0.017?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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) 12 W
D) 10 W

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

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

9. How the profit / gain is expressed?

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

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

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

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

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

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

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

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

21. What is the resistance? $I = 11.5 \text{ Amps}$ $V = 380 \text{ Volts}$ $R = \text{_____ Ohms}$

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

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

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

23. Which one is a poor heat insulator?

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

24. Which is example for first order lever?

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

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

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

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

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

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

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

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

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

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

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

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

- A) a^{22}
C) a^{35}
- B) a^{2^7}
D) a^{2^2}

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

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

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

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

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

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

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

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

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

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

36. What is the value for specific heat of water

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

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

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

38. Which is example for second order lever?

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

39. Which is the example for statically induced emf?

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

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

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

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

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

42. What are the various stages of heat treatment?

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

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

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

44. 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) 12500 kg/mm²
- B) 12.5 kg/mm²
- C) 1.25 kg/mm²
- D) 125 kg/mm²

45. Which is thermosetting plastic?

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

46. 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) 1060
- B) 1160
- C) 1260
- D) 1620

47. What denotes letter M in MKS system?

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

48. What are fundamental units?

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

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

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

50. What is an over estimate?

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