

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

Q. ID: ITISKILL3196TL

May 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 155 Mins

Total Marks: 50

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Student Name: _____ Roll No: _____

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

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

2. Which is example for second order lever?

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

3. What is the density of aluminium?

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

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

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

5. 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
B) 10
C) 6
D) 25

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

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

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

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

8. What is the definition of ratio?

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

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

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

10. Which one is related to estimation of work?

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

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

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

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

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

13. What is term used for 2 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

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

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

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

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

16. Convert 52% into fraction?

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

17. 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 current year

D) Standard schedule of rates of the average of the last 10 years

18. Which affects the centre of gravity of the object

A) Density
C) Weight

B) Mass
D) Shape

19. 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
C) 17 m

B) 16 m
D) 18 m

20. 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) 0.0001786
C) 0.0001968

B) 0.0001867
D) 0.0001687

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

A) Co-efficient of cubical expansion
C) Co-efficient of superficial expansion

B) Co-efficient of friction
D) Co-efficient of linear expansion

22. 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. 12 lakhs

B) Rs. 20 lakhs
D) Rs.10 lakhs

23. Which process produce equilibrium conditions?

A) Annealing and Hardening
C) Normalising and Tempering

B) Annealing and Normalising
D) Normalising and Tempering

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

A) PRO & LOS
C) L & P

B) P & L
D) PR & LS

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

A) 746 watts
C) 756 watts

B) 736 watts
D) 726 watts

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

A) 39.59 cm
C) 39.39 cm

B) 39.29 cm
D) 39.49 cm

27. 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
C) 10 hours

B) 12 hours
D) 18 hours

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

A) Latent heat
C) Specific heat

B) Mixing of heat
D) Sensible heat

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

A) 46
C) 65

B) 13
D) 36

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

A) 649 Joules
C) 639 Joules

B) 669 Joules
D) 659 Joules

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

A) 1.43
C) 0.7

B) 0.143
D) 7

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

A) -6.67 Degree C
C) -6.47 Degree C

B) -6.37 Degree C
D) -6.57 Degree C

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

A) 130 cm^2
C) 129 cm^2

B) 128 cm^2
D) 154 cm^2

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

A) 77 kg.m/sec
C) 78 kg.m/sec

B) 76 kg.m/sec
D) 75 kg.m/sec

35. 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) Specification of materials
D) Raw materials

36. Which is the unit electrical power?

A) Ohms
C) Watts

B) Volts
D) Ampere

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

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

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

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

39. What metals contained in brass alloy?

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

40. Which is thermosetting plastic?

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

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

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

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

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

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

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

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

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

45. What is the purpose of tempering a steel?

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

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

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

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

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

48. Which is mineral insulator

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

49. Who prepares the cost of estimation?

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

50. 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.17700/-
- C) Rs.15000/-
- D) Rs.18700/-