

ITI Quiz W/C - 04- Apr-2026 09:48 AM

Q. ID: ITISKILL2285N3

April 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 155 Mins

Total Marks: 50

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Student Name: _____ Roll No: _____

1. What is the term, if an article is purchased?
A) Margin price B) Discount price
C) Selling price D) Cost price
2. Convert 52% into fraction?
A) (9/25) B) (11/25)
C) (17/25) D) (13/25)
3. Find the total surface area of a cast iron bar whose length, width and height are 20m, 15m and 12m.
A) 1440 m^2 B) 1640 m^2
C) 1340 m^2 D) 1540 m^2
4. What is the value of $5x^4 / 5x^3$?
A) $5x^2$ B) $5x^4 / 5x^3$
C) $5x$ D) x
5. What is the formula to find Loss %?
A) $(\text{Loss} \times 100) / (\text{C.P})$ B) $(\text{S.P}) / (\text{Loss} + 100)$
C) $(\text{Loss} + 100) / (\text{S.P})$ D) $(\text{C.P}) / (\text{Loss} \times 100)$
6. Which is the example for statically induced emf?
A) Generator B) Refrigerator
C) Motor D) Transformer
7. 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) 10 hours B) 24 hours
C) 18 hours D) 12 hours
8. What is the density of aluminium?
A) 3.7 g/cm^3 B) 4.7 g/cm^3
C) 2.7 g/cm^3 D) 5.7 g/cm^3
9. What is the perimeter of a rectangle whose length and breadth are 20 cm and 18 cm?
A) 76 cm B) 66 cm
- C) 56 cm D) 86 mm
10. What is the use of engineering drawing?
A) For reducing the cost B) For estimation of material and execution of work
C) For increasing the cost D) For colourful appearance
11. What is the cost price (C.P) formula if there is a profit?
A) $((100) / (100 - \text{Loss } \%)) \times \text{S.P}$ B) $((100) / (100 + \text{Profit } \%)) \times \text{S.P}$
C) $((100 - \text{Loss } \%) / (100)) \times \text{C.P}$ D) $((100 + \text{Profit } \%) / (100)) \times \text{C.P}$
12. What is the area of the semicircle, if the diameter is 14 cm?
A) 76.93 cm^2 B) 70 cm^2
C) 75.06 cm^2 D) 86.93 cm^2
13. Which is the unit of resistance?
A) Ohm B) Volt
C) Ampere D) Watt
14. What is the maturity amount if Rs.20000 is deposited at 5% compound interest per annum for 2 years?
A) Rs.22050 B) Rs.22000
C) Rs.25000 D) Rs.22500
15. Which instrument is used to measure temperatures of red hot metals up to 3000 Degree C?
A) Thermoelectric pyrometer B) Alcohol thermometer
C) Bimetal thermometer D) Radiation pyrometer
16. What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?
A) 12 W B) 1.2 W
C) 3 W D) 10 W
17. What is the formula to find Profit %?
A) $((\text{C.P}) / (\text{Profit})) \times 100$ B) $((\text{Profit}) / (\text{C.P})) \times 100$
C) $((\text{Profit}) / (\text{S.P})) \times 100$ D) $((\text{S.P} - \text{C.P}) / (\text{Profit})) \times 100$
18. What is the capacity of a conical tank of radius 2 m and

height 5m?

- A) 41 m^3 B) 11 m^3
C) 21 m^3 D) 31 m^3

19. Find the total surface area of cube whose side is 25 cm.

- A) 3755 cm^2 B) 3750 cm^2
C) 3745 cm^2 D) 3740 cm^2

20. Which affects the centre of gravity of the object

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

21. What is the unit of speed?

- A) Metre/hour B) Metre/second
C) Metre/second² D) Metre/minute

22. How much work done in one hour, if a pump can raise 100 liters of water through a height of 200 meters in one minutes?

- A) $12 \times 10^4 \text{ kg meter}$ B) $12 \times 10^5 \text{ kg meter}$
C) $12 \times 10^6 \text{ kg meter}$ D) $12 \times 10^7 \text{ kg meter}$

23. What is the total estimation cost for making the component of 8 drilled hole dia 10 mm and 4 Numbers of M6 taps in the plate, if Rs.8/- per drilled holes and Rs.12 per drill and tap?

- A) Rs.102 B) Rs.112
C) Rs.110 D) Rs.100

24. Which is the unit of current?

- A) Ampere B) Volt
C) Watt D) Ohm

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

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

26. What is the relative permittivity of rubber?

- A) Between 2 and 3 B) Between 8 and 10
C) Between 12 and 14 D) Between 5 and 6

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

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

28. What is the work done in unit time?

- A) Energy B) Power
C) Force D) Acceleration

29. What is the volume (V) of mercury in cm^3 , if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm^3 ?

- A) 73.23 cm^3 B) 73.53 cm^3
C) 73.33 cm^3 D) 73.43 cm^3

30. What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively?

- A) 80 cm^2 B) 85 cm^2
C) 75 cm^2 D) 90 cm^2

31. What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

- A) 620 Joules B) 625 Joules
C) 635 Joules D) 630 Joules

32. What is the area of a right angled triangle having a base 10 cm and height 5 cm?

- A) 20 sq.cm B) 30 sq.cm
C) 25 sq.cm D) 35 sq.cm

33. Which is equal to $(a^m)^n$?

- A) $a^{m/n}$ B) a^{mn}
C) a^{m+n} D) a^{m-n}

34. What is the acceleration of a car if the speed of the car has increased from 25 km per hour to 40 km per hour in one minute?

- A) 0.69 m/sec^2 B) 0.069 m/sec^2
C) 0.059 m/sec^2 D) 0.59 m/sec^2

35. Which is very good conductor?

- A) Copper B) Steel
C) Wrought iron D) Cast iron

36. What is a hand book?

- A) Type of reference work or other collection of instruction B) Dictionary of materials
C) Model book of various works D) Design book of latest works

37. What is the name of the property of an insulation that should brake down or puncture on application of high voltage?

- A) Non absorption B) Mechanical strenth

C) Di-electric strength

D) Specific resistance

C) Mild steel

D) Steel

38. What is the freezing point of water in kelvin scale (K)?

A) 313 Degree K

B) 303 Degree K

C) 273 Degree K

D) 373 Degree K

45. Which steel is used for making files and cold chisel?

A) Stainless steel

B) Low carbon steel

C) High carbon steel

D) Midium carbon steel

39. How the 'Principal' is denoted in simple interest calculation?

A) 'R'

B) 'n'

C) 'P'

D) 'I'

46. What is the unit of strain?

A) Metre

B) No unit

C)

Newton/metre²

D) Kg/cm²

40. What is the name of the metal which do not contain iron?

A) Ferrous metals

B) Non-ferrous metals

C) Non-Insulating metals

D) Insulating metals

47. Which is mineral insulator

A) Porcelain

B) Quartz

C) Glass

D) Mica

41. What is called for the materials that restricts heat flow by radiation, conduction and convection?

A) Ferrous

B) Non-ferrous

C) Conductors

D) Insulators

48. What is the total construction cost of a house construction area of 3000 sq.ft. (cost of construction Rs.2000/- per sq.ft including material and labour)?

A) Rs.30,000,000

B) Rs.6,00,000

C) Rs.60,00,000

D) Rs.6,000,000

42. What is the name of furnace to obtained cast iron?

A) Alloy metal - Electric furnace

B) Mild steel - Blast furnace

C) Steel - Rever battery

D) Cupola

49. What is the quantity of heat required to raise the temperature of 1 gram of water through 1 Degree Centigrade is called?

A) Centigrade heat unit

B) British thermal unit

C) Specific heat

D) Colorie

43. Which cast iron cannot be welded?

A) White cast iron

B) Grey cast iron

C) Nodular cast iron

D) Malleable cast iron

50. What is the term used for maximum stress attained by a material before rupture?

A) Tensile stress

B) Working stress

C) Compressive stress

D) Ultimate stress

A) Cast iron

B) Alloy steel