

ITI Quiz W/C - 07- May-2026 03:00 PM

Q. ID: ITISKILL2711UP

May 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 60 Mins

Total Marks: 25

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1. What are fundamental units?

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

Answer: A) Length, Mass, Time

2. Which one has the highest thermal conductivity?

- A) Melting ice B) Steam
C) Water D) Solid ice

Answer: D) Solid ice

3. What is the angle of elevation of the top of a light house of 15 m height seen at a point 15 m away from the base?

- A) 60 Degree B) 45 Degree
C) 90 Degree D) 30 Degree

Answer: B) 45 Degree

4. Which is the formula for $a^m \times a^n$ / a^{m+n} ?

- A) a^{m+n} B) $a^{m \times n}$
C) a^{m-n} D) $(a^m)^n$

Answer: C) a^{m-n}

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

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

Answer: D) 154 cm^2

6. What is the square root of 529?

- A) 33 B) 43
C) 23 D) 12

Answer: C) 23

7. What is the minimum permissible area of conductor (U/G cable) for three and half cores cable?

- A) 5 sq.mm B) 100 sq.mm
C) 50 sq.mm D) 25 sq.mm

Answer: C) 50 sq.mm

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

- A) High carbon steel B) Stainless steel
C) Low carbon steel D) Medium carbon steel

Answer: A) High carbon steel

9. What are the three consecutive numbers if their sum is 42?

- A) 14,15,16 B) 11,12,13
C) 13,14,15 D) 12,13,14

Answer: C) 13,14,15

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

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

Answer: C) Adjacent Side/Hypotenuse

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

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

Answer: C) 190 grams

12. Which alloy is used in electric lamp as filament?

- A) Vanadium B) Tungsten
C) Cobalt D) Silicon

Answer: B) Tungsten

13. What is the formula to find selling price (S.P) if there is a loss?

- A) $\frac{(100 + \text{Profit } \%)}{(100)} \times \text{C.P}$ B) $\frac{(100 - \text{Loss } \%)}{(100)} \times \text{C.P}$
C) $\frac{(100)}{(100 - \text{Loss } \%)} \times \text{S.P}$ D) $\frac{(100)}{(100 + \text{Profit } \%)} \times \text{S.P}$

Answer: B) $\frac{(100 - \text{Loss } \%)}{(100)} \times \text{C.P}$

14. What is the total cost to assemble 10 personal computer systems, spares cost as given for one system: 1 TB hard disc Rs.4500/-, Intel i3 mother board Rs.7000/-, SMPS Rs.2500/-, monitor Rs.6000/-, keyboard Rs.1000/-, other material cost (Switches, USB, Cable)

- A) Rs.250000/- B) Rs.275000/-
C) Rs.265000/- D) Rs.225000/-

Answer: B) Rs.275000/-

15. What is the value of x, if $3(2x - 4) = -4x + 28$?

- A) 12 B) 6
C) 8 D) 4

Answer: D) 4

16. What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

- A) 0.10 m/sec^2 B) 0.30 m/sec^2
C) 0.20 m/sec^2 D) 0.40 m/sec^2

Answer: B) 0.30 m/sec^2

17. Which insulator is used in over head lines?

- A) Mica B) Rubber
C) P.V.C D) Porcelain

Answer: D) Porcelain

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

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

Answer: A) 314 cm^2

19. What is the total wattage in a room if 2 tube lights of 50W rating, 2 fans of 80W rating, 2 numbers of light points of 60W rating, one fan point of 60W rating and one 3 pin socket of 100W rating?

- A) 340 W B) 440 W
C) 540 W D) 640 W

Answer: C) 540 W

20. What is the compound interest on a principal of Rs.25000/- after 3 years at the rate of 12% per annum?

- A) Rs.9720 B) Rs.10123.20
C) Rs.10483.20 D) Rs. 9000

Answer: B) Rs.10123.20

21. Which is equal to $(a+b)^2 - (a-b)^2$

- A) $3ab$ B) $2ab$
C) $5ab$ D) $4ab$

Answer: D) $4ab$

22. What is the unit of co-efficient of linear expansion?

- A) Number / Degree C / mm B) Number / Degree C / length
C) Number / Degree C / cm length D) Number / Degree C

Answer: D) Number / Degree C

23. What is called if the length of the solid expands when heated?

- A) Superficial expansion B) Linear expansion
C) Area expansion D) Cubical expansion

Answer: B) Linear expansion

24. Which one of the following geometrical shape's centre of gravity lies from its base is $1/3$ of its height?

- A) Rhombus B) Cone
C) Square D) Triangle

Answer: D) Triangle

25. What are the various stages of heat treatment?

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

Answer: B) Heating, Soaking and Quenching