

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

Q. ID: ITISKILL9635SS

May 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 60 Mins

Total Marks: 25

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Student Name: _____ Roll No: _____

1. What is the square root of 529?

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

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

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

3. What are fundamental units?

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

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

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

5. Which alloy used in electric lamp as filament?

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

6. What is the mass if the density of a body is 7.6 g/cm³ and its volume is 25 cm³?

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

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

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

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

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

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

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

C) Hypotenuse/Opposite Side

D) Hypotenuse/Adjacent Side

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

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

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

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

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

- A) 128 cm² B) 154 cm²
C) 130 cm² D) 129 cm²

13. 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) 540 W B) 440 W
C) 340 W D) 640 W

14. Which insulator is used in over head lines?

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

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

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

16. Which one has the highest thermal conductivity?

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

17. 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) 0.20 m/sec^2
C) 0.30 m/sec^2 D) 0.40 m/sec^2

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

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

19. 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

20. What are the various stages of heat treatment?

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

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

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

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

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

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

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

24. 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, Cabl

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

25. 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) 90 Degree B) 45 Degree
C) 30 Degree D) 60 Degree