

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

Q. ID: ITISKILL9635SS

May 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 60 Mins

Total Marks: 25

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

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

**Answer: A) High carbon steel**

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

- A)  $128 \text{ cm}^2$       B)  $129 \text{ cm}^2$   
C)  $130 \text{ cm}^2$       D)  $154 \text{ cm}^2$

**Answer: D)  $154 \text{ cm}^2$**

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

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

**Answer: C) Linear expansion**

4. What are fundamental units?

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

**Answer: D) Length, Mass, Time**

5. What are the three consecutive numbers if there sum is 42?

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

**Answer: B) 13,14,15**

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

- A)  $0.20 \text{ m/sec}^2$       B)  $0.30 \text{ m/sec}^2$   
C)  $0.40 \text{ m/sec}^2$       D)  $0.10 \text{ m/sec}^2$

**Answer: B)  $0.30 \text{ m/sec}^2$**

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

- A) 6      B) 12  
C) 8      D) 4

**Answer: D) 4**

8. 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

**Answer: D) Number / Degree C**

9. Which one has the highest thermal conductivity?

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

**Answer: D) Solid ice**

10. Which one of the following geometrical shape's centre of gravity lies from its base is  $\frac{1}{3}$  of its height?

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

**Answer: D) Triangle**

11. Which insulator is used in over head lines?

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

**Answer: D) Porcelain**

12. 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

**Answer: B) 45 Degree**

13. Which is the formula for  $a^m \div a^n$ ?

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

**Answer: B)  $a^{m-n}$**

14. What is the square root of 529?

- A) 43      B) 12  
C) 33      D) 23

**Answer: D) 23**

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

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

**Answer: D) 4ab**

16. What is the mass if the density of a body is  $7.6 \text{ g/cm}^3$  and its volume is  $25 \text{ cm}^3$ ?

A) 210 grams

B) 190 grams

C) 220 grams

D) 200 grams

**Answer: B) 190 grams**

**17.** What are the various stages of heat treatment?

A) Heating, Cooling and Quenching

B) Soaking, Quenching and Cooling

C) Heating, Soaking and Quenching

D) Quenching, Cooling and Heating

**Answer: C) Heating, Soaking and Quenching**

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

A)  $31.4 \text{ cm}^2$

B)  $314 \text{ cm}^2$

C)  $3.14 \text{ cm}^2$

D)  $30.4 \text{ cm}^2$

**Answer: B)  $314 \text{ cm}^2$**

**19.** Which alloy used in electric lamp as filament?

A) Vanadium

B) Cobalt

C) Silicon

D) Tungsten

**Answer: D) Tungsten**

**20.** 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)  $\frac{(100)}{(100+\text{Profit \%})} \times \text{S.P}$

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

D)  $\frac{(100)}{(100-\text{Loss \%})} \times \text{S.P}$

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

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

A) Rs.10483.20

B) Rs. 9000

C) Rs.10123.20

D) Rs.9720

**Answer: C) Rs.10123.20**

**22.** 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.225000/-

B) Rs.265000/-

C) Rs.250000/-

D) Rs.275000/-

**Answer: D) Rs.275000/-**

**23.** 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) 640 W

C) 540 W

D) 440 W

**Answer: C) 540 W**

**24.** What is equal to  $\cos \theta$ ?

A) Opposite side/Hypotenuse

B) Adjacent Side/Hypotenuse

C) Hypotenuse/Opposite Side

D) Hypotenuse/Adjacent Side

**Answer: B) Adjacent Side/Hypotenuse**

**25.** 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) 100 sq.mm

D) 50 sq.mm

**Answer: D) 50 sq.mm**