

# ITI Quiz - 06-Feb-2026

## 10:44 PM

Q. ID: ITISKILL54961J

February 2026

Question Paper

Duration: 30 Mins

Total Marks: 25

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Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

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

- A) Ultimate stress                      B) Working stress  
C) Compressive stress                  D) Tensile stress

- A) 0.50% to 1.50%                      B) 0.02% to 0.03%  
C) 0.25% to 0.50%                      D) 0.15% to 0.25%

2. What is the name of fixed or supporting point of a lever?

- A) Mechanical advantage                B) Effort  
C) Load                                      D) Fulcrum

10. What is the area of an equilateral triangle of side 450 mm?

- A)  $866.82 \text{ cm}^2$                       B)  $886.82 \text{ cm}^2$   
C)  $856.82 \text{ cm}^2$                       D)  $876.82 \text{ cm}^2$

3. What is the value of  $a^2 + b^2$  if  $a + b = 9$  and  $ab = 20$ ?

- A) 41    B) 121  
C) (-41)                                      D) (-121)

11. What is the height of the wall where the ladder touches the wall if the ladder is 2.5 m long makes an angle of 60 Degree with the ground?

- A) 4.23 m                                      B) 2.165 m  
C) 4.13 m                                      D) 4.43 m

4. Which is equal to electric power?

- A)  $R^2 I$  watts                              B)  $I^2 R$  watts  
C)  $RI$     D)  $IRA$

12. What is denoted as 'I'?

- A) Rate    B) Year  
C) Interest                                      D) Principal

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

- A)  $3745 \text{ cm}^2$                               B)  $3750 \text{ cm}^2$   
C)  $3740 \text{ cm}^2$                               D)  $3755 \text{ cm}^2$

13. What is the compounded amount, if the principal of Rs.30000/- and interest earned at 7% per annum is Rs.4347?

- A) Rs.33347/-                                B) Rs.32347/-  
C) Rs.34347/-                                D) Rs.30347/-

6. What is termed as the quantity of matter contained in a body?

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

14. Which machine converts mechanical energy into electrical energy?

- A) Battery                                      B) Generator  
C) Heater                                      D) Iron box

7. Which is the expansion of  $a^3 + b^3$ ?

- A)  $a^3 - b^3 - 3ab(a-b)$                       B)  $(a-b)(a^2 + b^2 + ab)$   
C)  $a^3 + b^3 + 3ab(a+b)$                       D)  $(a+b)(a^2 + b^2 - ab)$

15. Which affects the centre of gravity of the object

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

8. Which authority publishes schedule of rates?

- A) Corporate                                  B) Government department  
C) Individual                                    D) Partnership firm

16. What is the term, for the details of materials, brand name, grade of quality, rating of current and voltage etc.?

- A) Specification of materials              B) Price catalogue  
C) Drawing                                      D) Raw materials

9. What is the carbon percentage in low carbon steel?

17. What is a profit?

- A) Cost price + Selling price              B) Cost price - Selling price  
C) Selling price + Cost price                D) Selling price - Cost price

18. Which is the unit electrical power?

- A) Ohms  
B) Volts  
C) Watts  
D) Ampere

19. What is the LCM of 12, 18, 6, 36?

- A) 12  
B) 36  
C) 18  
D) 42

20. 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  
B) 17 m  
C) 18 m  
D) 16 m

21. What is called mass per unit volume of a substances?

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

22. What is the co-efficient of linear expansion of a rod if it is

found to be 100 m long at 20 Degree C and 100.14 m long at 100 Degree C?

- A)  $1.75 \times 10^{-5}$  / Degree C  
B)  $1.75 \times 10^{-7}$  / Degree C  
C)  $1.75 \times 10^{-6}$  / Degree C  
D)  $1.75 \times 10^{-4}$  / Degree C

23. What is the value of adding  $(5x+2y)$ ,  $(4x - 7z)$  and  $(15z - 3y)$ ?

- A)  $x - 9y + 8z$   
B)  $9x - y + 8z$   
C)  $x + 9y + 8z$   
D)  $9x + y - 8z$

24. Which is the formula for  $a^m / a^n$ ?

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

25. How much is 8% of 40 kg?

- A) 4.2 kg  
B) 2.2 kg  
C) 5.2 kg  
D) 3.2 kg