

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

Q. ID: ITISKILL2285N3

April 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 155 Mins

Total Marks: 50

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

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

**Answer: A) Ultimate stress**

2. What is the capacity of a conical tank of radius 2 m and height 5m?

- A)  $41 \text{ m}^3$                                 B)  $31 \text{ m}^3$   
C)  $11 \text{ m}^3$                                 D)  $21 \text{ m}^3$

**Answer: D)  $21 \text{ m}^3$**

3. What is the formula to find Profit %?

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

**Answer: A)  $\frac{\text{Profit}}{\text{C.P.}} \times 100$**

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

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

**Answer: C) 625 Joules**

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

- A) Colorie                                    B) British thermal unit  
C) Centigrade heat unit                D) Specific heat

**Answer: A) Colorie**

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

**Answer: B)  $12 \times 10^5 \text{ kg meter}$**

7. 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.100                                      B) Rs.112  
C) Rs.110                                      D) Rs.102

**Answer: B) Rs.112**

8. What is the work done in unit time?

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

**Answer: B) Power**

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

- A) 273 Degree K                              B) 303 Degree K  
C) 313 Degree K                              D) 373 Degree K

**Answer: A) 273 Degree K**

10. What is the relative permittivity of rubber?

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

**Answer: B) Between 2 and 3**

11. What is the density of aluminium?

- A)  $4.7 \text{ g/cm}^3$                                 B)  $2.7 \text{ g/cm}^3$   
C)  $5.7 \text{ g/cm}^3$                                 D)  $3.7 \text{ g/cm}^3$

**Answer: B)  $2.7 \text{ g/cm}^3$**

12. Find the total surface area of a cast iron bar whose length, width and height are 20m, 15m and 12m.

- A)  $1540 \text{ m}^2$                                 B)  $1440 \text{ m}^2$   
C)  $1640 \text{ m}^2$                                 D)  $1340 \text{ m}^2$

**Answer: B)  $1440 \text{ m}^2$**

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

- A) Specific resistance                        B) Non absorption  
C) Di-electric strength                        D) Mechanical strength

**Answer: C) Di-electric strength**

14. 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.60,00,000  
C) Rs.6,000,000                                D) Rs.6,00,000

**Answer: B) Rs.60,00,000**

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

- A) Mild steel - Blast furnace                B) Steel - Rever battery  
C) Alloy metal - Electric furnace            D) Cupola



C) Discount price                      D) Selling price

**Answer: A) Cost price**

**34.** What is the unit of speed?

- A) Metre/hour                      B) Metre/second<sup>2</sup>  
C) Metre/minute                  D) Metre/second

**Answer: D) Metre/second**

**35.** How many hours will take for a 100 watts bulb to consume 1 kwh energy?   
W = 1 Kwh    P = 100 Watts    t = \_\_\_\_Hours

- A) 10 hours                      B) 12 hours  
C) 18 hours                      D) 24 hours

**Answer: A) 10 hours**

**36.** What is the use of engineering drawing?

- A) For colourful appearance    B) For reducing the cost  
C) For increasing the cost        D) For estimation of material and execution of work

**Answer: D) For estimation of material and execution of work**

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

- A) 75 cm<sup>2</sup>                      B) 80 cm<sup>2</sup>  
C) 85 cm<sup>2</sup>                      D) 90 cm<sup>2</sup>

**Answer: B) 80 cm<sup>2</sup>**

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

- A) 'I'                              B) 'P'  
C) 'R'                              D) 'n'

**Answer: B) 'P'**

**39.** What is the cost price (C.P) formula if there is a profit?

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

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

**40.** What is a hand book?

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

**Answer: C) Type of reference work or other collection of instruction**

**41.** Convert 52% into fraction?

- A) (11/25)                      B) (9/25)  
C) (13/25)                      D) (17/25)

**Answer: C) (13/25)**

**42.** What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

- A) 12 W                              B) 10 W  
C) 3 W                              D) 1.2 W

**Answer: A) 12 W**

**43.** Which is mineral insulator

- A) Porcelain                      B) Quartz  
C) Mica                              D) Glass

**Answer: C) Mica**

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

- A) Insulators                      B) Non-ferrous  
C) Conductors                      D) Ferrous

**Answer: A) Insulators**

**45.** What is the unit of strain?

- A) Metre                              B) Newton/metre<sup>2</sup>  
C) Kg/cm<sup>2</sup>                      D) No unit

**Answer: D) No unit**

**46.** What is the maturity amount if Rs.20000 is deposited at 5% compound interest per annum for 2 years?

- A) Rs.22500                      B) Rs.22000  
C) Rs.22050                      D) Rs.25000

**Answer: C) Rs.22050**

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

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

**Answer: D) 25 sq.cm**

**48.** Which cast iron cannot be welded?

- A) Malleable cast iron                      B) Nodular cast iron  
C) White cast iron                      D) Grey cast iron

**Answer: C) White cast iron**

**49.** Which metal cannot be forged?

- A) Mild steel                      B) Steel  
C) Cast iron                      D) Alloy steel

**Answer: C) Cast iron**

**50.** Which is the unit of current?

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

**Answer: B) Ampere**