

# ITI Quiz W/c - 05- May-2026 09:47 AM

Q. ID: ITISKILL7464AI

May 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 155 Mins

Total Marks: 50

ID: ITISKILL7464AI

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

1. Which process produce equilibrium conditions?

- A) Normalising and Tempering      B) Normalising and Tempering  
C) Annealing and Hardening      D) Annealing and Normalising

2. Who prepares the cost of estimation?

- A) Quality Inspector      B) Operator  
C) Draughts man      D) Estimator

3. What is the purpose of tempering a steel?

- A) To reduce the brittleness      B) To remove the ductility  
C) To increase the hardness      D) To increase the brittleness

4. Which is thermosetting plastic?

- A) Vinyl polymers      B) Polystyrenes  
C) Celluloid      D) Melamine resins

5. What is the safe stress if the ultimate stress of a material is  $35 \text{ kg/mm}^2$  and factor of safety is 5?

- A) 1.43      B) 0.7  
C) 7      D) 0.143

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

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

7. Where the centre of gravity of a circle lies?

- A) Any where on its diameter      B) Any where on its radius  
C) Any where on its circumference      D) At its centre

8. Which one is related to estimation of work?

- A) Bill of material      B) Hand book  
C) Packing      D) Information table

9. How the years is denoted in simple interest calculations?

- A) n      B) I  
C) r      D) P

10. What is the change in length per unit original length per degree rise in temperature is called?

- A) Co-efficient of cubical expansion      B) Co-efficient of superficial expansion  
C) Co-efficient of friction      D) Co-efficient of linear expansion

11. What is the density of aluminium?

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

12. 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

13. How many watts for 1 horse power in British system?

- A) 756 watts      B) 736 watts  
C) 746 watts      D) 726 watts

14. What is the definition of ratio?

- A) Equality between two ratios      B) Relation of two quantities of the different kind  
C) Relation of two quantities of the same kind      D) Inequality between two ratios

15. Which is the unit electrical power?

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

16. What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

- A) 639 Joules      B) 669 Joules  
C) 659 Joules      D) 649 Joules

17. What is the centre of gravity of a right circular cone from its base?

- A)  $h/4$       B)  $h/2$   
C)  $h/3$       D)  $h/5$

18. What is called for the amount of heat required to raise the temperature of unit mass of a substance through 1 Degree C?

- A) Specific heat
- B) Latent heat
- C) Sensible heat
- D) Mixing of heat

19. What is the total cost of painting of a class room including ceiling, if the size of length is 6m, breadth is 5m and height is 4m. (Painting + labour cost Rs.150/- per sq.m)

- A) Rs.16700/-
- B) Rs.15000/-
- C) Rs.18700/-
- D) Rs.17700/-

20. Which alloy steel is using for making precious instrument?

- A) Invar steel
- B) Vanadium
- C) Manganese steel
- D) Silicon steel

21. What is term used for 2 x linear expansion?

- A) Co-efficient of superficial expansion
- B) Co-efficient of cubical expansion
- C) Co-efficient of linear expansion
- D) Co-efficient of friction

22. What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

- A) 10
- B) 6
- C) 15
- D) 25

23. What is called the ratio between the density of a substances density of water at 4 Degree Centigrade?

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

24. What is the weight of the iron ball has volume of 250 cc and density 7.5 gm/cc?

- A) 1875 gram
- B) 1975 gram
- C) 1785 gram
- D) 1750 gram

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

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

26. What is the value in degree centigrade for 20 Degree F?

- A) -6.47 Degree C
- B) -6.37 Degree C
- C) -6.67 Degree C
- D) -6.57 Degree C

27. How many watts for 1 horse power in metric system?

- A) 755.5 watts
- B) 725.5 watts
- C) 745.5 watts
- D) 735.5 watts

28. What is the value of x if  $13+x = 20$ ?

- A) 13
- B) 9
- C) 8
- D) 7

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

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

30. What is the value of x if  $(x + 2) / 2 = 19$ ?

- A) 36
- B) 38
- C) 33
- D) 35

31. What is the value of  $x^2 - y^2$  if  $(x+y) = 9, (x - y) = 4$ ?

- A) 46
- B) 36
- C) 13
- D) 65

32. Which property of metal has its power of returning to its original shape after the applied force is released?

- A) Malleability
- B) Elasticity
- C) Plasticity
- D) Tenacity

33. 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

34. Which insulating material is most widely used in refrigerators?

- A) Cork sheet
- B) Polyurethane
- C) Thermocole
- D) Glass wool

35. What is known for the temperature at which any solid melts into liquid?

- A) Latent heat of fusion
- B) Melting point
- C) Boiling point
- D) Latent heat of vaporisation

36. Which is example for second order lever?

- A) A pair of scissors
- B) Bottle opener
- C) Human forearm
- D) Common balance

37. What metals contained in brass alloy?

- A) Copper and aluminium
- B) Copper and lead
- C) Copper and tin
- D) Copper and zinc

38. What is the equivalent unit for 1 horse power in metric

system?

- A) 75 kg.m/sec                      B) 78 kg.m/sec  
C) 77 kg.m/sec                      D) 76 kg.m/sec
- 

**39.** What percentage of water absorbed by a good building stone?

- A) Less than 8%                      B) Less than 5%  
C) Less than 10%                      D) Less than 20%
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**40.** What is the diagonal of a square plate whose side is 28 cm?

- A) 39.49 cm                      B) 39.59 cm  
C) 39.29 cm                      D) 39.39 cm
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**41.** What is the total cost of Air-conditioners installed in a college, 40 class room-each 1 Air-conditioner, Computer lab 5 Air- conditioners and conference hall 5 Air-conditioners (Cost of one air conditioner Rs.30000/- including installation)?

- A) Rs. 12 lakhs                      B) Rs. 20 lakhs  
C) Rs. 15 lakhs                      D) Rs.10 lakhs
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**42.** Which is the short form of profit and loss statement?

- A) PR & LS                      B) P & L  
C) L & P                      D) PRO & LOS
- 

**43.** Which standard schedule of rates to be considered for estimation?

- A) Standard schedule of rates of the last year                      B) Standard schedule of rates of the average of the last 10 years  
C) Standard schedule of rates of the average of last 5 years                      D) Standard schedule of rates of the current year
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**44.** What is the diameter of the circle, if the area of the circle is  $78.5\text{cm}^2$ ?

- A) 5 cm                      B) 5.5 cm  
C) 10 cm                      D) 15 cm
- 

**45.** What is the tensile strain if a force of 3.2 KN is applied to a bar of original length 2800 mm extends the bar by 0.5 mm?

- A) 0.0001867                      B) 0.0001786  
C) 0.0001687                      D) 0.0001968
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**46.** How many hours will take for a 100 watts bulb to consume 1 kwh energy?   
 $W = 1 \text{ Kwh}$    
 $P = 100 \text{ Watts}$    
 $t = \text{____Hours}$

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

**47.** Which is mineral insulator

- A) Mica                      B) Glass  
C) Quartz                      D) Porcelain
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**48.** Convert 52% into fraction?

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

**49.** Which affects the centre of gravity of the object

- A) Shape                      B) Weight  
C) Density                      D) Mass
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**50.** Which rubber is used as insulator for power cables and control wires?

- A) Hypalone                      B) Silicon  
C) Nitrite butadiene                      D) Butyl
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