

ITI Quiz WC - 11- Jun-2026 01:18 PM

Q. ID: ITISKILL8468MM

June 2026

Trinity, College udhyavara udupi

Answer Key

Duration: 180 Mins

Total Marks: 25

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1. What effort required to lift a load of 150 kg in a wheel and axle, if the velocity ratio is 2.5 and the efficiency of the machine is 75%?

- A) 90 kg B) 100 kg
C) 70 kg D) 80 kg

Answer: D) 80 kg

2. 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.18700/- B) Rs.15000/-
C) Rs.16700/- D) Rs.17700/-

Answer: D) Rs.17700/-

3. How many millimetres are there in 1 inch? | 1 ಇಂಚಿನಲ್ಲಿ ಎಷ್ಟು ಮಿಲಿಮೀಟರ್‌ಗಳಿವೆ?

- A) 24.5 mm B) 2.45 mm
C) 25.4 mm D) 2.54 mm

Answer: C) 25.4 mm

4. What is the improper fraction for the given mixed fraction ? $7 \frac{3}{7}$

- A) $\frac{7}{52}$ B) $\frac{52}{7}$
C) $\frac{7}{28}$ D) $\frac{28}{7}$

Answer: B) $\frac{52}{7}$

5. Which one is related to estimation of work?

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

Answer: D) Bill of material

6. What is the force with which a body is attracted by the earth towards its centre?

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

Answer: C) Weight

7. What is the formula for induced emf?

- A) $BL \sin \theta$ volts B) $B^2 \sin \theta$ volts
C) $B^2 \sin \theta$ volts D) $BL \sin \theta$ volts

Answer: D) $BL \sin \theta$ volts

8. What is the tensile stress if a square rod of 10 mm side is tested for a tensile load of 1000 kg?

- A) 10 kg /mm² B) 1 kg/mm²
C) 1000 kg/mm² D) 100 kg/mm²

Answer: A) 10 kg /mm²

9. What is the density (r) in g/cm³ of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm³?

- A) 6.6 g/cm³ B) 6.9 g/cm³
C) 7.5 g/cm³ D) 7.2 g/cm³

Answer: C) 7.5 g/cm³

10. What is the name of the heat treatment process, where the metal is heated and quenched in water or oil?

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

Answer: D) Hardening

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

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

Answer: C) Triangle

12. Convert 45 Degree C (Centigrade) into Degree F (Fahrenheit)

- A) 113 Degree F B) 111 Degree F
C) 112 Degree F D) 110 Degree F

Answer: A) 113 Degree F

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

- A) Standard schedule of rates of the average of the last 10 years B) Standard schedule of rates of the current year
C) Standard schedule of rates of the last year D) Standard schedule of rates of the average of last 5 years

Answer: B) Standard schedule of rates of the current year

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

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

Answer: C) Co-efficient of linear expansion

15. Which one is heat insulator?

- A) Thermocole
C) Aluminium
- B) Copper
D) Brass

Answer: A) Thermocole

16. What is the estimation of milling cost of a rectangular block size 100 X 80 X 60 mm, if cost of the milling is Rs.2/sq.cm?

- A) Rs.752/-
C) Rs.572/-
- B) Rs.652/-
D) Rs.960/-

Answer: A) Rs.752/-

17. Which symbol is used to express change in length?

- A) l
C) Δl
- B) L
D) e

Answer: C) Δl

18. What is the square root of 529?

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

Answer: A) 23

19. What is the area of the sector, whose diameter is 40 mm and angle is 120 Degree?

- A) 415.5 mm^2
C) 418.66 mm^2
- B) 416.6 mm^2
D) 400.50 mm^2

Answer: C) 418.66 mm^2

20. What is the main factor to be considered while preparing a detailed estimate?

- A) Quantity, availability and transportation of materials
C) Location of material
- B) Shape of material
D) Brand of the materials

Answer: A) Quantity, availability and transportation of materials

21. Which is the suitable nitriding process for all alloyed and unalloyed steels?

- A) Silver nitriding
C) Gas nitriding
- B) Nitriding in Quenching tank
D) Nitriding in salt-bath

Answer: D) Nitriding in salt-bath

22. Which one of the following geometrical shapes centre of gravity lies from its base is $\frac{1}{3}$ of its height?

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

Answer: D) Triangle

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

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

Answer: D) 41

24. What is the other term of pocket reference in engineering works?

- A) Good book
C) Hand tool
- B) New book
D) Hand book

Answer: D) Hand book

25. Which metal is widely used for making casting of machinery parts?

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

Answer: D) Grey cast iron