

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

Q. ID: ITISKILL8468MM

June 2026

Trinity, College udhyavara udupi

Question Paper

Duration: 180 Mins

Total Marks: 25

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Student Name: _____ Roll No: _____

1. What is the formula for induced emf?

A) $BLV \sin \theta$ volts

B) $B^2 L \sin \theta$ volts

C) $BL \sin \theta$ volts

D) $B^2 V \sin \theta$ volts

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

A) $\frac{7}{52}$

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

C) $\frac{28}{7}$

D) $\frac{7}{28}$

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

A) Quantity, availability and transportation of materials

B) Shape of material

C) Brand of the materials

D) Location of material

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

A) 110 Degree F

B) 111 Degree F

C) 113 Degree F

D) 112 Degree F

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

A) Wrought iron

B) White cast iron

C) Grey cast iron

D) Malleable cast iron

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

A) Hand tool

B) Good book

C) New book

D) Hand book

7. 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.18700/-

C) Rs.15000/-

D) Rs.17700/-

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

A) Triangle

B) Square

C) Cone

D) Rhombus

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

A) 41

B) 121

C) (-41)

D) (-121)

10. What is the square root of 529?

A) 23

B) 33

C) 12

D) 43

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

A) e

B) l

C) L

D) Δl

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

A) Cone

B) Square

C) Rhombus

D) Triangle

13. 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/mm^2

B) 100 kg/mm^2

C) 1 kg/mm^2

D) 1000 kg/mm^2

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

A) Nitriding in salt-bath

B) Silver nitriding

C) Gas nitriding

D) Nitriding in Quenching tank

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

A) Weight

B) Density

C) Volume

D) Mass

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

A) Standard schedule of rates of the current year

C) Standard schedule of rates of the last year

B) Standard schedule of rates of the average of last 5 years

D) Standard schedule of rates of the average of the last 10 years

17. 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) 70 kg

C) 90 kg

B) 100 kg

D) 80 kg

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

A) 400.50 mm²

C) 418.66 mm²

B) 416.6 mm²

D) 415.5 mm²

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

A) 24.5 mm

C) 2.45 mm

B) 25.4 mm

D) 2.54 mm

20. Which one is related to estimation of work?

A) Hand book

C) Information table

B) Bill of material

D) Packing

21. Which one is heat insulator?

A) Aluminium

C) Copper

B) Thermocole

D) Brass

22. 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.652/-

C) Rs.752/-

B) Rs.572/-

D) Rs.960/-

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

A) Co-efficient of friction

C) Co-efficient of cubical expansion

B) Co-efficient of linear expansion

D) Co-efficient of superficial expansion

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

A) Tempering

C) Hardening

B) Annealing

D) Normalising and Tempering

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

A) 7.5 g/cm³

C) 6.9 g/cm³

B) 6.6 g/cm³

D) 7.2 g/cm³