

ITI Quiz - 17-Jun-2026

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Q. ID: ITISKILL21954A

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 filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

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

2. What is the square root of decimal number 550.37?

- A) 22.46 B) 21.26
C) 23.46 D) 22.26

3. What is the volume of a rectangular tank of 30 m length, 20m width and 10m height?

- A) 5900 m^3 B) 6200 m^3
C) 6100 m^3 D) 6000 m^3

4. What is the weight force of a car has a mass of 800 kg?(Take $g = 9.81 \text{ m/sec}$)

- A) 7487 Newton B) 7748 Newton
C) 7848 Newton D) 7847 Newton

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

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

6. Which alloy steel is used to make permanent magnets?

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

7. What will be the rpm of smaller gear if a 180 mm dia meshes with 60 mm dia gear and the bigger gear makes 60 rpm?

- A) 160 rpm B) 140 rpm
C) 180 rpm D) 120 rpm

8. What is the mechanical advantage, if a load of 1000 kg is lifted by a simple machine and effort applied is 250 kg?

- A) 3 B) 6
C) 8 D) 4

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

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

10. What is the boiling point of mercury?

- A) 357 Degree C B) 767 Degree C
C) 280 Degree C D) 759 Degree C

11. How the profit / gain is expressed?

- A) Rs. B) \$
C) * D) %

12. Which is mineral insulator

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

13. Who prepares the cost of estimation?

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

14. What is the boiling point of water in fahrenheit scale?

- A) 212 Degree F B) 112 Degree F
C) 100 Degree F D) 180 Degree F

15. What is the angle of elevation of the top of a light house of 15 m height seen at a point 15 m away from the base?

- A) 30 Degree B) 60 Degree
C) 45 Degree D) 90 Degree

16. 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) 18 hours
C) 24 hours D) 10 hours

17. Which affects the centre of gravity of the object

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

18. Which law states about electromagnetic induction?

- A) Hooke's law
C) Lenz's law

- B) Ohm's law
D) Faraday's law

19. Which IE rules are to be verified on completion of wiring on any new installation?

- A) IE Rules, 1967
C) IE Rules, 1960
- B) IE Rules, 1961
D) IE Rules, 1956

20. Which law states that at constant temperature the current passing through a closed circuit is directly proportional to the potential difference and inversely proportional to the resistance?

- A) Hooke's law
C) Lenz's law
- B) Ohm's law
D) Newton's law

21. Which is the example for statically induced emf?

- A) Motor
C) Generator
- B) Refrigerator
D) Transformer

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

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

23. Which state of equilibrium's example is, A cone resting on its base?

- A) Un-stable
C) Neutral
- B) Both A and B
D) Stable

24. Which force acts on crank shaft?

- A) Shear stress
C) Torsional stress
- B) Compressive stress
D) Tensile stress

25. What is the weight of a rectangular block of a cast iron of 250cm X 20cm X 8cm (density of cast iron is 7.8 gm/cm³)?

- A) 372 kg
C) 525 kg
- B) 312 kg
D) 410 kg