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Score: 12/25 (48.00%)

Code: 3472

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

- A) 8
B) **7 (Correct)**
C) 9
D) 13

2. Which is mineral insulator

- A) Glass
B) Quartz
C) **Mica**
D) Porcelain (Incorrect)

3. 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) **Ohm's law (Correct)**
B) Lenz's law
C) Newton's law
D) Hooke's law

4. 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 (Incorrect)
D) 1.2 W

5. Which law states about electromagnetic induction?

- A) Ohm's law
B) Hooke's law
C) Lenz's law
D) **Faraday's law (Correct)**

6. Which is the example for statically induced emf?

- A) Generator
B) Motor
C) **Transformer (Correct)**
D) Refrigerator

7. 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 (Correct)**
B) 12 hours
C) 18 hours
D) 24 hours

8. Which force acts on crank shaft?

- A) Shear stress
B) **Torsional stress**
C) Tensile stress (Incorrect)
D) Compressive stress

9. Who prepares the cost of estimation?

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

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

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

11. 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) **312 kg**
B) 372 kg (Incorrect)
C) 410 kg
D) 525 kg

12. Which affects the centre of gravity of the object

- A) Weight
B) **Mass (Correct)**
C) Density
D) Shape

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

- A) Un-stable
B) Neutral
C) **Stable**
D) Bothe A and B (Incorrect)

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

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

15. What is the boiling point of mercury?

- A) **357 Degree C**
B) 280 Degree C (Incorrect)
C) 759 Degree C
D) 767 Degree C

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

- A) 6
B) 8
C) 3
D) **4 (Correct)**

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

- A) Density
B) Volume
C) **Mass (Correct)**
D) Specific gravity

18. What is the weight force of a car has a mass of 800 kg?(Take g = 9.81m/sec)

A) 7848 Newton

B) 7748 Newton (Incorrect)

C) 7847 Newton

D) 7487 Newton

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

A) Silicon steel

B) Manganese steel

C) Vanadium steel

D) Cobalt steel (Correct)

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

A) 20 sq.cm

B) 25 sq.cm

C) 30 sq.cm

D) 35 sq.cm (Incorrect)

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

A) 5900 m^3

B) 6000 m^3 (Correct)

C) 6100 m^3

D) 6200 m^3

22. How the profit / gain is expressed?

A) Rs. (Incorrect)

B) \$

C) %

D) *

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

A) 21.26

B) 22.26 (Incorrect)

C) 22.46

D) 23.46

24. 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) 120 rpm

B) 140 rpm

C) 160 rpm (Incorrect)

D) 180 rpm

25. 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) 45 Degree (Correct)

C) 60 Degree

D) 90 Degree