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GOVT ITI MEN MANGALORE

Question Paper

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Score: 14/25 (56.00%)

Code: 8025

1. What is the value of $14x + 3y + 25x + 2y$?

- A) $17x + 27y$ B) $16x + 28y$ (Incorrect)
C) **$39x + 5y$** D) $44xy$

2. What is the value of adding $(5x + 2y)$, $(4x - 7z)$ and $(15z - 3y)$?

- A) **$9x - y + 8z$** B) $x - 9y + 8z$
C) $x + 9y + 8z$ D) $9x + y - 8z$ (Incorrect)

3. What is the value of x , if $3(2x - 4) = -4x + 28$?

- A) **4** B) 8 (Incorrect)
C) 6 D) 12

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

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

5. What is the radius of a circle whose diameter is 44 cm?

- A) 44 cm B) **22 cm** (Correct)
C) 23 cm D) 20 cm

6. What is the current?

$R = 50 \text{ Ohms}$

220 Volts

$I = \text{_____ Amps}$

- A) 4.1 Amps B) 4.2 Amps
C) 4.3 Amps D) **4.4 Amps** (Correct)

7. What is the unit of strain?

- A) Kg/cm^2 B) Newton/metre^2
C) Metre D) **No unit** (Correct)

8. What is the ratio of ultimate load to area of original cross section?

- A) Factor of safety B) Yield point
C) **Ultimate stress** (Correct) D) Youngs modulus

9. What is the ratio of shear stress to shear strain?

A) Modulus of elasticity

B) **Modulus of rigidity** (Correct)

C) Bulk modulus

D) Yield point

10. What is the minimum permissible size of aluminium wire used in estimation?

- A) **1.5 sq.mm** (Correct) B) 2.5 sq.mm
C) 5 sq.mm D) 3.5 sq.mm

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

- A) 1750 gram (Incorrect) B) **1875 gram**
C) 1975 gram D) 1785 gram

12. What is the total cost to assemble 10 personal computer systems, spares cost as given for one system: 1 TB hard disc Rs.4500/-, Intel i3 mother board Rs.7000/-, SMPS Rs.2500/-, monitor Rs.6000/-, keyboard Rs.1000/-, other material cost (Switches, USB, Cabl

- A) **Rs.275000/-** (Correct) B) Rs.250000/-
C) Rs.225000/- D) Rs.265000/-

13. Which instrument is used to measure heat?

- A) **Calorie meter** (Correct) B) Thermometer
C) Pyrometer D) Barometer

14. What is the melting point of aluminium?

- A) **660 Degree C** B) 680 Degree C (Incorrect)
C) 670 Degree C D) 620 Degree C

15. 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 B) **80 kg**
C) 90 kg (Incorrect) D) 100 kg

16. Which one is non-metal?

- A) Mercury B) **Graphite** (Correct)
C) Brass D) Iron

17. Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

- A) Ductility B) Malleability
C) **Hardness** (Correct) D) Toughness

18. What is the side of a square whose area is 625 mm²?

- A) 15 mm B) 20 mm (Incorrect)
C) 25 mm D) 30 mm

19. How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

- A) 1766.25 liters (Correct) B) 1767.25 liters
C) 1768.25 liters D) 1769.25 liters

20. What is the expanded form of S.P?

- A) Selected Price B) Special Price
C) Selling Price (Correct) D) Super Price

21. What is the formula to find Profit %?

- A) $((C.P)/(\text{Profit})) \times 100$ B) $((\text{Profit})/(S.P)) \times 100$
C) $((S.P - C.P)/(\text{Profit})) \times 100$ (Incorrect) D) $((\text{Profit})/(C.P)) \times 100$

22. What is the compound interest on a principal of Rs.25000/- after 3 years at the rate of 12% per annum?

- A) Rs. 9000 B) Rs.9720
C) Rs.10123.20 D) Rs.10483.20 (Incorrect)

23. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

- A) Cu 92% B) Cu 94% (Correct)
C) Cu 96% D) Cu 98%

24. 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

25. Simplify: $(3/4) + (2/5) - (5/20)$

- A) $(3/10)$ B) $(9/10)$
C) $(12/10)$ (Incorrect) D) $(13/10)$