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Score: 9/25 (36.00%)

Code: 7204

1. What is the value of $14x+3y+25x+2y$?
- A) $17x + 27y$ (Incorrect) B) $16x + 28y$
C) $39x + 5y$ D) $44xy$
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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)
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3. What is the value of x, if $3(2x - 4) = -4x + 28$?
- A) 4 (Correct)** B) 8
 C) 6 D) 12
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4. What is the value of $a^{2}+b^{2}$ if $a+b=9$ and $ab = 20$?
- A) 121 B) (-121)
C) 41 (Correct) D) (-41)
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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
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6. What is the current?
 $R = 50 \text{ Ohms}$
 220 Volts
 $I = \text{_____Amps}$
- A) 4.1 Amps B) 4.2 Amps (Incorrect)
C) 4.3 Amps **D) 4.4 Amps**
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7. What is the unit of strain?
- A) Kg/cm^2 B) Newton/metre^2
 C) Metre **D) No unit (Correct)**
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8. What is the ratio of ultimate load to area of original cross section?
- A) Factor of safety (Incorrect) B) Yield point
C) Ultimate stress D) Youngs modulus
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9. What is the ratio of shear stress to shear strain?
- A) Modulus of elasticity **B) Modulus of rigidity**
- C) Bulk modulus D) Yield point (Incorrect)
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10. What is the minimum permissible size of aluminium wire used in estimation?
- A) 1.5 sq.mm** B) 2.5 sq.mm
C) 5 sq.mm (Incorrect) D) 3.5 sq.mm
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11. What is the weight of the iron ball has volume of 250 cc and density 7.5 gm/cc?
- A) 1750 gram **B) 1875 gram**
 C) 1975 gram D) 1785 gram (Incorrect)
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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/-
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13. Which instrument is used to measure heat?
- A) Calorie meter** B) Thermometer (Incorrect)
 C) Pyrometer D) Barometer
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14. What is the melting point of aluminium?
- A) 660 Degree C** B) 680 Degree C
C) 670 Degree C (Incorrect) D) 620 Degree C
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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 (Correct)**
 C) 90 kg D) 100 kg
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16. Which one is non-metal?
- A) Mercury **B) Graphite (Correct)**
 C) Brass D) Iron
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17. Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?
- A) Ductility B) Malleability (Incorrect)
C) Hardness D) Toughness
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18. What is the side of a square whose area is 625

mm²?

- A) 15 mm B) 20 mm
C) **25 mm (Correct)** D) 30 mm
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19. How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

- A) **1766.25 liters** B) 1767.25 liters
C) 1768.25 liters (Incorrect) D) 1769.25 liters
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20. What is the expanded form of S.P?

- A) Selected Price B) Special Price (Incorrect)
C) **Selling Price** D) Super Price
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21. What is the formula to find Profit %?

- A) $((C.P)/(\text{Profit})) \times 100$ B) $((\text{Profit})/(S.P)) \times 100$
C) $((S.P-C.P)/(\text{Profit})) \times 100$ D) **$((\text{Profit})/(C.P)) \times 100$**
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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)
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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% (Incorrect) B) **Cu 94%**
C) Cu 96% D) Cu 98%
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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
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25. Simplify: $(3/4) + (2/5) - (5/20)$

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