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Score: 7/20 (35.00%)

Code: 8436

1. What is the value of $14x + 3y + 25x + 2y$?A) $17x + 27y$ B) $16x + 28y$ **C) $39x + 5y$** D) $44xy$ (Incorrect)

2. What is the length of arc of the sector whose radius is 15 cm and the intended angle is 30 Degree?

A) 7.85 cm

B) 7.25 cm

C) 6.75 cm

D) 6.85 cm (Incorrect)

3. What is the area of the sector, if the diameter is 12 cm and the angle is 60 Degree?

A) 18.0 cm^2 (Incorrect)B) 17.75 cm^2 C) 19.00 cm^2 **D) 18.84 cm^2** 4. What is the radius of the circle if the angle of sector is 90 Degree and the area of the circle is 196 cm^2 ?**A) 15.77 cm (Correct)**

B) 15 cm

C) 14.85 cm

D) 14.95 cm

5. What is the length of arc of a sector, whose radius is 15 cm and angle is 40 Degree?

A) 9.75 cm

B) 9.8 cm (Incorrect)

C) 10.60 cm

D) 10.4 cm

6. What is the area of the circle, whose diameter is 50 cm?

A) 1900 cm^2 B) 1950 cm^2 **C) 1962.5 cm^2 (Correct)**D) 1960 cm^2

7. What is the name of the region of a circle between any two point on the circumference?

A) Arc

B) Segment

C) Sector (Incorrect)

D) Chord

8. What is the radius of the circle, whose circumference is 440 cm?

A) 71.5 cm

B) 70 cm (Correct)

C) 70.5 cm

D) 72.2 cm

9. Which machine converts mechanical energy into electrical energy?

A) Battery (Incorrect)

B) Generator

C) Heater

D) Iron box

10. Which is the unit of current?

A) Ampere (Correct)

B) Volt

C) Ohm

D) Watt

11. Which is the unit of resistance?

A) Ampere

B) Volt

C) Ohm (Correct)

D) Watt

12. What is the flow of electrons in any conductor?

A) Voltage

B) Current (Correct)

C) Resistance

D) Power

13. Which property of a substance is opposing the flow of electric current?

A) Current

B) Voltage (Incorrect)

C) Resistance

D) EMF

14. Which is very good conductor?

A) Copper (Correct)

B) Cast iron

C) Wrought iron

D) Steel

15. Which is mineral insulator

A) Glass

B) Quartz

C) Mica

D) Porcelain (Incorrect)

16. What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

A) 11 ohms

B) 7 ohm (Incorrect)

C) 17 ohms

D) 1/17 ohms

17. What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A) 10 (Incorrect)

B) 2.4

C) 5

D) 4

18. Which is same in series connection of resistors in a circuit?

A) Current

B) Voltage (Incorrect)

C) Resistance

D) Power

19. 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

B) Lenz's law

C) Newton's law

D) Hooke's law (Incorrect)

20. What is the resistance?

$I = 11.5$ Amps

$V = 380$ Volts

$R = \underline{\hspace{1cm}}$ Ohms

A) 13 ohms

B) 23 ohms (Incorrect)

C) 33 ohms

D) 43 ohms