

GOVERNAMENT ITI TAGADUR-571119

ELE TRICIAN

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Student Name	Vidvath R	Access Code	4426
Attempt No.	#1	Completion Time	03:41 PM
Rank	#11	Total Questions	20

17 SCORE

20 MAX MARKS

17 CORRECT

3 INCORRECT

Answer Review

Q1 **INCORRECT** What is the value of $14x+3y+25x+2y$?

A. $17x + 27y$

B. $16x + 28y$ ☐

C. $39x + 5y$ ☐

D. $44xy$

Q2 **CORRECT** 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

Q3 **CORRECT** What is the area of the sector, if the diameter is 12 cm and the angle is 60 Degree?

A. 18.0 cm^2

B. 17.75 cm^2

C. 19.00 cm^2

D. 18.84 cm^2 ☒

Q4 **CORRECT** 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 ☒

B. 15 cm

C. 14.85 cm

D. 14.95 cm

Q5 **CORRECT** 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

C. 10.60 cm

D. 10.4 cm ☒

Q6 **CORRECT** 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 ☒

D. 1960 cm^2

Q7 **INCORRECT** What is the name of the region of a circle between any two point on the circumference?

A. Arc ☐

B. Segment ☒

C. Sector

D. Chord

Q8 **CORRECT** What is the radius of the circle, whose circumference is 440 cm?

A. 71.5 cm

B. 70 cm ☒

C. 70.5 cm

D. 72.2 cm

Q9 **INCORRECT** Which machine converts mechanical energy into electrical energy?

A. Battery ☐

B. Generator ☒

C. Heater

D. Iron box

Q10 **CORRECT** Which is the unit of current?

A. Ampere ☒

B. Volt

C. Ohm

D. Watt

Q11 **CORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm ☒

D. Watt

Q12 **CORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current ☒

C. Resistance

D. Power

Q13 **CORRECT** Which property of a substance is opposing the flow of electric current?

A. Current

B. Voltage

C. Resistance ☒

D. EMF

Q14 **CORRECT** Which is very good conductor?

A. Copper ☒

B. Cast iron

C. Wrought iron

D. Steel

Q15 **CORRECT** Which is mineral insulator

A. Glass

B. Quartz

C. Mica ☒

D. Porcelain

Q16 **CORRECT** 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

C. 17 ohms ☒

D. 1/17 ohms

Q17 **CORRECT** What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A. 10

B. 2.4 ☒

C. 5

D. 4

Q18 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current ☒

B. Voltage

C. Resistance

D. Power

Q19 **CORRECT** 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

Q20 **CORRECT** What is the resistance?

$I = 11.5$ Amps

$V = 380$ Volts

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

A. 13 ohms

B. 23 ohms

C. 33 ohms ☒

D. 43 ohms