

EL-201 (Electronic components and shop practice)
M: T - 1 HRS

Question - Paper

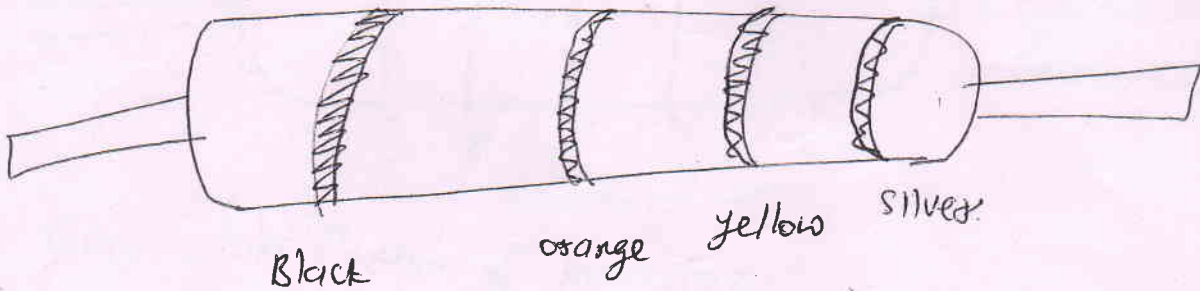
Attempt any three question and give answer in clear hand writing each question have same marks

Q-1 Describe constructional detail of wire-wound Resistor with neat diagram (तार कुंडलित प्रतिरोध की बनावट का संक्षिप्त वर्णन कीजिये) (5)

Q-2 - Give classification of Resistors (प्रतिरोध का वर्गीकरण दीजिये) (5)

Q-3 - What is thermistor, describe its construction in detail (थर्मिस्टर क्या है इसकी मूल बनावट की वर्णन कीजिये) (5)

Q-4 Find the value of Resistor by color coding (5)

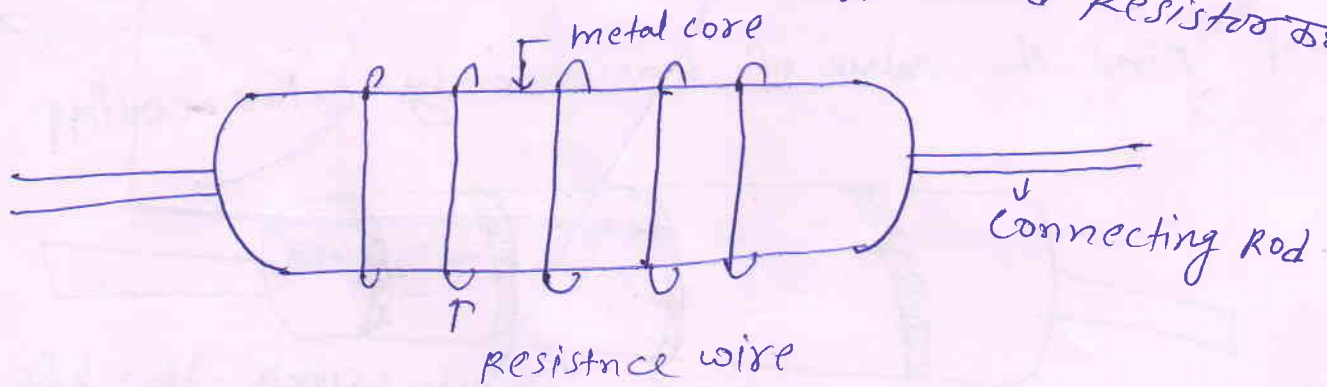


ANSWER SHEET

Q-1] Describe constructional detail of wire wound Resistor with neat diagram

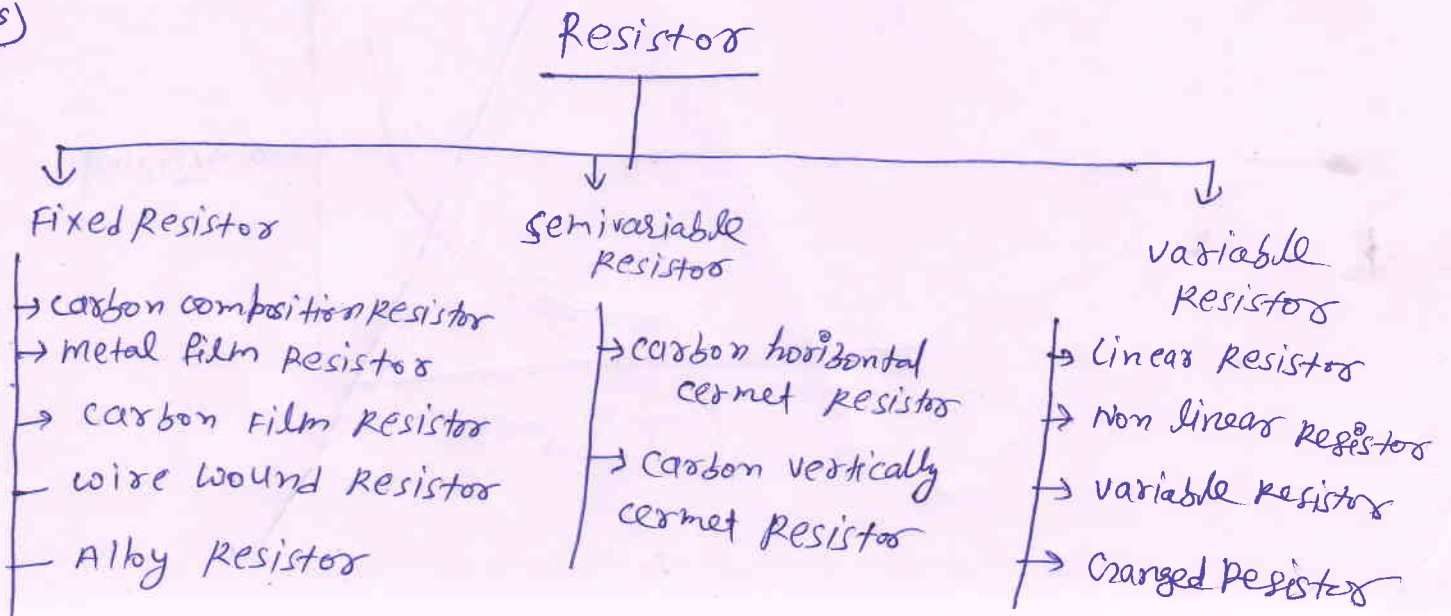
Sol] Construction → wire wound resistor are made up of metal core, metal wire, the metal core are made by nichrome, it is very high conducting materials and its operates by high temp.

ये एक fixed type का Resistor है, इसमें metal का प्रयोग किया जाता है, और metal में current flow का certain level तक कम करता है। इसका यह wire wound Resistor कहते हैं।



Q-2] Give classification of resistor

Ans]



what is thermistor, describe its constructional detail

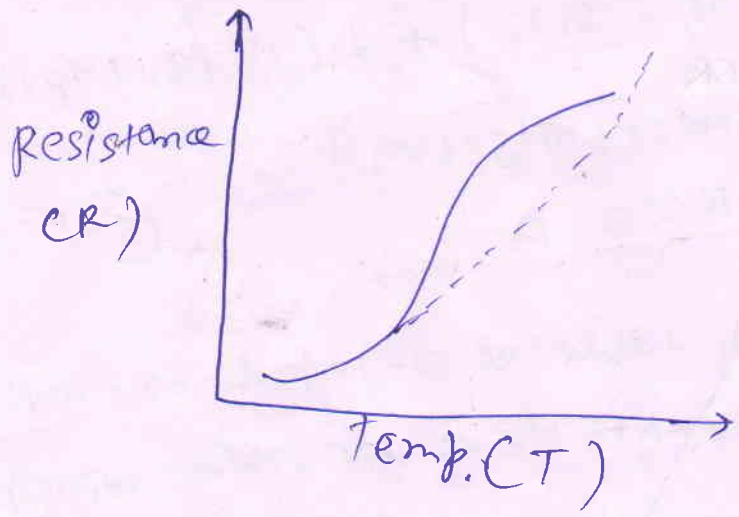
1) thermistor it is type of resistor and its resistance changes rapidly with the small change in temp.

thermistor is a temperature sensing element. whose composed of semiconductor materials

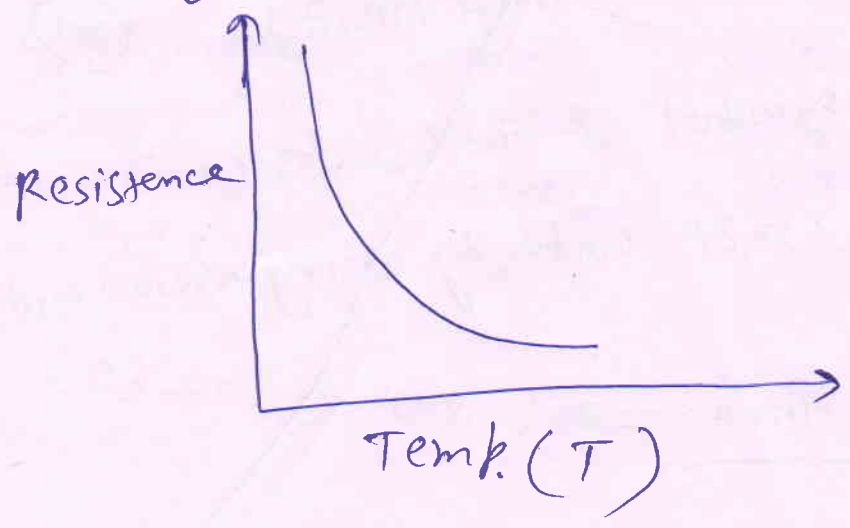
there are two type of thermistor

- 1) NTC (Negative temp. coefficient)
- 2) PTC (Positive temp coefficient)

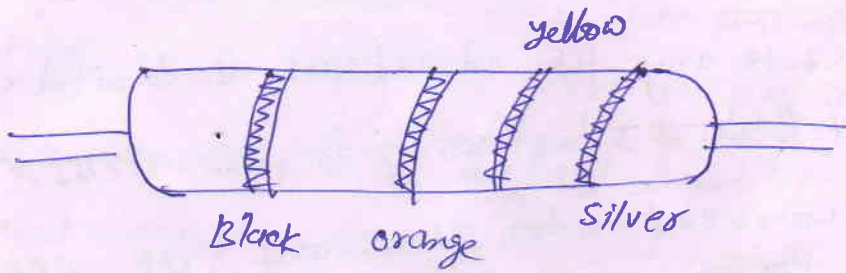
Graphically represented in (NTC)



Graphically representation of PTC



4 find the value of resistor by color coding



color	Digit	multiplier	Tolerance (%)
Black	0	$10^0 = 1$	—
Brown	1	10^1	—
Red	2	10^2	—
Orange	3	10^3	—
Yellow	4	10^4	—
Green	5	10^5	—
Blue	6	10^6	—
Violet	7	10^7	—
Grey	8	10^8	—
White	9	10^9	—
Gold	—	10^{-1}	5%
Silver	—	10^{-2}	10%

Black, orange yellow silver
 └───┬───┘ └──┘ └──┘
 digit multiplier Tolerance (%)
 (0, 3) 10^4 10%

$(03 \times 10^4 \pm 10\%) \Omega$

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