

1)The resistivity of these materials which lies between conductor & insulators is...

a) Electron Emission, b)solids, c) semi conductor, d)Electronics

2)The flow of electrons through vaccum, gas or semi conductor is.....

a) Semi conductor, b)Electronics, c)Resister, d)capacitor

3)Traffic-light control, multimeters, CRO, Frequency converter is the applications which belongs to.....

a)Entertainment &communication b)control &instrumentation

c)applications in medical science d) application in defence

4)The liberation of electrons from the surface of a substance is ....

a)capacitance b)Thermionic emission c) electronic emission d)secondary emission

5)which type of electron emission is heated upto a sufficient temperature of about 2500° c to free the electrons?

a)Thermonic emission b) Field emission

c)photo-electric emission d)secondary emisssion

6)In which type of electron emission a strong electric field is applied ...

a)Field emission b)Thermonic emission

c)secondary emission d)photo-electric emission

7) A high velocity beam of electrons strike the metal surface and causes the free electrons of the metal in.....

(a) Thermionic emission (b) Secondary emission

c) field emission d) photo electric emission

8) Rubber, paper, mica are classified in which type of solids.....

a)Conductor b) Semiconductor c) Insulator d) None of these

9) A very narrow energy gap of the order of 1eV between valence band and conduction band is classified with respect to which type of energy band.....

a) Conductor    b) Semiconductor    c) Insulator    d) all of the above

10) The process of adding impurity to a semiconductor is called....

a) Intrinsic semiconductor    b) extrinsic semiconductor  
c) doping    d) P type and N type semiconductor

11) A typical semiconductor chip having dimension of

a) 2mm X 0.2 mm X 2mm    b) 2mm X 2mm X 0.1 mm  
c) 0.1 mm X 2mm X 2mm    d) 2mm X 2mm X 0.2 mm

12) which of the following does not belong to Digital ICs applications .....

a) Memory circuits    b) computers    c) radio transmitter    d) calculators

13) From the following which one does not belong to linear ICs.....

a) T.V receivers    b) radars    c) digital counters    d) microwave applications

14) Pentavalent type of impurity is added in which type of semiconductor....

a) intrinsic semiconductor    b) extrinsic semiconductor  
c) p-type semiconductor    d) n-type semiconductor

15) In p-type semiconductor which type of impurity is added.....

a) pentavalent impurity    b) Trivalent impurity  
c) Donor impurity    d) all of the above

**Specify the colour code of:**

16) Red , Blue, Orange, Gold.....

- a)  $77\text{K}\Omega \pm 10\%$     b)  $32\text{K}\Omega \pm 5\%$     c)  $26\text{K}\Omega \pm 5\%$     d)  $10\text{K}\Omega \pm 20\%$

17) Orange, Green, Yellow, Plain.....

- a)  $35\text{K}\Omega \pm 20\%$     b)  $33\text{K}\Omega \pm 5\%$     c)  $3\Omega \pm 5\%$     d)  $25\text{K}\Omega \pm 2\%$

**Specify the resistor value of:**

18)  $45\text{m}\Omega \pm 10\%$ .....

- a) Red, Black, Yellow, Gold    b) Yellow, Green, Green, Silver  
c) Blue, Black, Yellow, Plain    d) Orange, Blue, Brown, Gold

19)  $27\text{K}\Omega \pm 2\%$ .....

- a) Red, Blue, Orange, Gold    b) Yellow, White, Red, Plain  
c) Red, Violet, Orange, Red    d) Violet, Blue, Black, Gold

20)  $2\text{M}\Omega \pm 5\%$ .....

- a) Red, Brown, Yellow, Silver    b) Blue, Blue, Red, Gold  
c) Black, Red, Green, Gold    d) Violet, Blue, Brown, Plain

**Answer Keys:**

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|------|------|------|------|------|
| 1. c | 2. b | 3. b | 4.c  | 5.a  |
| 6.a  | 7.b  | 8.c  | 9.b  | 10.c |
| 11.b | 12.c | 13.c | 14.d | 15.b |
| 16.c | 17.a | 18.b | 19.d | 20.c |