

## Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	If the energy of photon is 10 eV and work function is 5 eV, then the a value of stopping potential will be	A. 50 V B. 2 V <b>C. 5 V</b> D. 15 V
2	An ECG records the _____ between points on human skin generated by electric process i the heart.	A. Heart beat B. Pulse rate C. Pressure <b>D. Voltage</b>
3	If we make magnetic field stronger the value of induced current is.	A. Decreased <b>B. Increased</b> C. Vanishes D. Remain constant
4	the substances in which the atoms do not form magnetic dipoles are called.	A. Diamagnetic B. Para magnetic C. Ferro magnetic <b>D. Crystal</b>
5	A force of 0.01 N is exerted on a charge $1.2 \times 10^{-5}$ C at a certain point. The electric field at that point is	A. $1.2 \times 10^4$ N/C B. $1.2 \times 10^4$ N/C <b>C. <math>8.3 \times 10^2</math> N/C</b> D. $8.3 \times 10^{-2}$ N/C
6	The Basic circuit element in a D.C. circuits which controls the current and voltage is	A. <div>Resistor</div> B. Inductor C. <div>Capacitor</div> D. Transistor
7	By winding the coil around a less magnetic core, self induction.	A. Will increase <b>B. Will decrease</b> C. Remain same D. First increase then decrease
8	Pair production cannot take place in vacuum because :	A. Mass is not conserved <b>B. Momentum is not conserved</b> C. Energy is not conserved D. Charge is not conserved
9	LDR becomes necessary when op amp is used as a	A. Night switch B. Inverter <b>C. Comparator</b> D. Rectifier
10	The motional emf is given by	A. $qvB$ B. $IBL$ C. $eBL$ <b>D. <math>vBL</math></b>
11	Which of the following quantities remain constant in step up transformer?	A. Current B. Voltage <b>C. Power</b> D. Heat
12	Which particle has larger range in air.	A. Alpha rays <b>B. Gamma rays</b> C. Beta rays D. Neutron
13	Gauss's law can only be applied to.	A. A curved surface B. A flat surface <b>C. A closed surface</b> D. A surface of any shape
14	Photo diode is used for detection of.	A. Heat B. Magnet C. Current <b>D. Light</b>
15	Base of transistor is of order:	A. $10^{-11}$ m B. $10^{-6}$ m C. $10^{-8}$ m <b>D. <math>10^{-6}</math> m</b>

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16 The induction can be increased by winding the wire around a core made of.

A. Copper  
B. Silicon  
**C. Iron**  
D. Aluminum

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17 The device which allows only the flow of D.C. is.

A. Capacitors  
B. transformer  
**C. Inductor**  
D. Generator

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18 In an N-type silicon, which of the following statement is true?

A. Electrons are majority carriers & trivalent atoms are the dopants  
B. Electrons are majority carriers & pentavalent atoms are the dopants  
**C. Holes are minority carriers & pentavalent atoms are the dopants.**  
D. Holes are minority carriers & trivalent atoms are the dopants.

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19 Pair production occurs only when energy of photon is at least equal in:

A. 1.02keV  
B. 1.02 eV  
**C. 1.02 MeV**  
D. 1.02 GeV

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20 Pair production can take place only when energy of radiation is equal and greater than 1.02 MeV, thus correct option is.

A. X rays  
**B. Gama rays**  
C. Heat Radiation  
D. Ultraviolet rays

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