

## Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	Mass equivalent of 931 MeV energy is:	A. $6.02 \times 10^{-23}$ kg B. $1.766 \times 10^{-27}$ kg C. $2.67 \times 10^{-29}$ kg D. $6.02 \times 10^{-87}$ kg
2	The Compton effect is associated with	A. X-rays B. y-rays C. Positive rays D. $\beta$ -rays
3	100 micro F capacitor is connects to an AC voltage 24 V and frequency 50 Hz. The reactance of the capacitor is.	A. 30.8 Ohm B. 31.8 Ohm C. 34.8 Ohm D. 40 Ohm
4	X-rays are similar in nature to.	A. Gama rays B. Beta rays C. Alpha rays D. Cathode rays
5	Mutual induction has a practical role in the performance of the.	A. Radio choke B. Transformers C. A.C. Generator D. D.C. Generator
6	The mutual inductance of the coils depends upon.	A. Stiffness of the coils B. Density of coils C. Material of coils D. Geometry of the coils
7	The unit of conductivity is:	A. $\text{Ohm}^{-3} \text{m}^2$ B. $\text{Ohm m}^{-1}$ C. Both a and b D. $\text{Ohm m}^{-1}$
8	The gain of transistor amplifier depends upon	A. Resistance connected with collector B. Resistance connected with base voltage C. Input voltage D. Output voltage
9	Flux through any closed surface is:	A. $1/\epsilon_0^2 \times \text{sub}^\circ$ times the total charge enclosed in it B. $\epsilon_0^2 \times \text{sub}^\circ$ time the total charge enclosed in it C. $1/\epsilon_0$ ties the total charge enclosed in it D. $\epsilon_0 \times \text{sub}^\circ$ time the total charge enclosed in it
10	Commutator was invented in	A. 1834 B. 1820 C. 1840 D. 1835
11	A capacitor stores energy in the form of.	A. Magnetic field B. Heat energy C. Electrical energy D. Mechanical energy
12	When platinum is it becomes orange at.	A. $500^\circ\text{C}$ B. $900^\circ\text{C}$ C. $1100^\circ\text{C}$ D. $1300^\circ\text{C}$
13	Which one pair belongs to acceptor impurity.	A. Arsenic, phosphorus B. Boron, gallium C. Arsenic, antimony D. Antimony, indium
14	The unit of induced emf is	A. Ampere B. Volt C. Joule/coulomb

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15 Doping is made comparatively larger in  
A. Emitter  
B. Base  
**C. Collector**  
D. P -type semi conductor

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16 Donor impurities are  
A. Germanium, silicon  
B. Indium, gallium  
**C. Antimony, arsenic**  
D. Diamond, carbon

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17 Photo electrons are emitted y using visible light when the metal is.  
A. sodium  
B. Copper  
C. Nicked  
D. Cobalt

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18 The converses of annihilation of matter is:  
A. Photoelectric effect  
B. Relativistic effect  
**C. Pair production**  
D. Compton effect

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19 The shortest wave length is Bracket series has wave length.  
A.  $16/Rn$   
B.  $Rn/16$   
C.  $16 Rn$   
D.  $4 Rn$

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20 Energy stored per uint volume inside a solenoid is called as  
A. energy density  
B. Electric flux  
C. Work  
D. Volume charge density

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