

## Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	When a very high energy modeules such as $\gamma$ radiation interact with matter, the phenomenon arising will be.	A. Photoelectric effect B. Compton effect C. Pair production D. Annihilation of matter
2	Various types of cancer are treated by	A. Carbon -14 B. Nickel -63 C. Cobalt -60 D. Strontium -90
3	Those elements whose charge number $z$ is greater than _____ are unstable:	A. 80 B. 79 C. 82 D. 83
4	For rectification we use.	A. Transformer B. Diode C. Choke D. Generator
5	A cable breaks if stretched by more than 2mm. It is cut into two equal parts. How much either part can be stretched without breaking?	A. 25 m B. 1mm C. 2mm D. 0.5 m
6	The electrostatic force between two charges is 42 N, If we place a dielectric of $E_f=2.1$ between the charges then the force become equal to.	A. 42 N B. 88.2 N C. 20 N D. 2 N
7	Which one of the following physical quantities change with relativistic speed?	A. Length B. Time C. Mass D. All of above
8	1 kg mass will be equivalent to energy.	A. $9 \times 10^{8}$ J B. $9 \times 10^{12}$ J C. $9 \times 10^{16}$ J D. $9 \times 10^{19}$ J
9	$e/m =$	A. $v/B r$ B. $B/r V$ C. $V B/r$ D. $V r/B$
10	Mutual induction has a practical role in the performance of the.	A. Radio choke B. Transformers C. A.C. Generator D. D.C. Generator
11	The background radiation to which we are exposed, on the average is.	A. 1 mSv per year B. 2 mSv per year C. 3 mSv per year D. 4 mSv per year
12	In a coil current change from 2 to 4 A in .05 s . If the average induced emf is 8 V then coefficient of self-inductance is:	A. 0.2 henry B. 0.1 henry C. 0.8 henry D. 0.04 henry
13	Magnetic induction can be measured in units of.	A. Tesla B. Gauss C. Weber/m <sup>2</sup> D. All of the above
14	The illustration of the phenomenon of mutual induction is in the device of	A. Transformer B. Inductor C. A.C. Generator D. Ammeter
15	If current flowing through a solenoid becomes four times, then magnetic field inside becomes.	A. two times B. three times C. four times D. Half

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16 Resistance of choke is  
A. zero  
B. Large  
C. Very small  
D. Infinite

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17 Binding energy per nucleus for uranium is above:  
A. 6.7 Mev  
B. 7.7 Mev  
C. 6.9 MeV  
D. 7.9 MeV

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18 The unit of resistance is:  
A.  $\Omega$   
B.  $\Omega m$   
C.  $\Omega^{<sup>-1</sup>}m^{<sup>-1</sup>}$   
D.  $\Omega m^{<sup>-1</sup>}$

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19 In purely resistive A.C circuit, instantaneous value of voltage and current:  
A. Current lags behind voltage  
B. Current leads voltage by  $\pi/2$   
C. Both are in Phase  
D. Voltage leads current by  $\pi/2$

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20 the core of transformer is laminated so reduce.  
A. Magnetic loss  
B. Hysteresis loss  
C. Eddy current loss  
D. Electric loss

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