

## Physics ICS Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	The reverse saturation current in a PN junction diode is only due to:	A. Majority carriers B. Minority carriers C. Acceptor ions D. Donor ions
2	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.
3	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
4	Curie temperature is a point where :	A. Diamagnetism changes to paramagnetism B. Paramagnetism changes to Diamagnetism C. Ferromagnetism changes to paramagnetism D. Paramagnetism changes to Ferromagnetism
5	If both the length and radius of the rod are doubled, then the modulus of elasticity will:	A. Increase B. Decrease C. Remains the same D. Doubled
6	Which of the modulus of elasticity is involved in compressing a rod to decrease its length ?	A. Young's modulus B. Bulk modulus C. Modulus of elasticity D. None of these
7	Which of the modulus of elasticity is involved in compressing a rod to decrease its length ?	A. Young's modulus B. Bulk modulus C. Modulus of elasticity D. None of these
8	A wire stretched to double of its length, its strain is:	A. 2 B. 1 C. 0 D. 0.5
9	The circuit in which current and voltage are in phase, the power factor is:	A. Zero B. 1 C. -1 D. 2
10	An electromagnetic wave goes from air to glass which of the following does not change?	A. Radio waves B. X-rays C. Ultra violet radiation D. Ultra sound waves
11	For electromagnetic waves, Maxwell generalized	A. Gauss law for magnetism B. Gauss law for electricity C. Faraday's law D. Ampere's law
12	An alternating quantity (voltage or current) is completely known if we know its:	A. Maximum B. Frequency and phase C. Effective value D. Both (a) & (b)
13	In LR circuit which one of the following statements is correct?	A. L and R opposes each other B. R value increases with frequency C. The inductive reactance increases with frequency D. The inductive reactance

decreases with frequency

14	An alternating voltage is given by $20 \sin 157 t$ . The frequency of alternating voltage is:	A. 50 Hz B. 25 Hz C. 100 Hz D. 75 Hz
15	The phase difference between the current and voltage at resonance is:	A. 0 B. $\pi$ C. $-\pi$ D. $\pi/2$
16	In AC system we generate sine wave form because:	A. It can be easily drawn B. It produces least disturbance in electrical circuits C. It is nature standard D. Other waves cannot be produced easily
17	In an LRC circuit, the capacitance is made one-fourth, when at resonance. Then what should be the change in inductance, so that the circuit remains in resonance?	A. 4 times B. 1/4 times C. 8 times D. 2 times