

## Physics ECAT Pre Engineering MCQ's Test For Full Book

| Sr | Questions  | Answers Choice   |
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| 1  | Under normal circumstances, the volume of blood is sufficient to keep the vessels                    | A. flatted for all times<br>B. inflated for all times<br>C. inflated for small times<br>D. none of them                                |
| 2  | One KWh is equal to:   | A. $3.6 \times 10^{22}$ J<br>B. 3.6 KJ<br>C. $3.6 \times 10^{17}$ KJ<br>D. 3.6 MJ  |
| 3  | The peak voltage in a 220 volt A.C. supply is nearly   | A. 220 volt<br>B. 253 volt<br>C. 311 volt<br>D. 440 volt   |
| 4  | At absolute temperature, the kinetic energy of the molecules   | A. Becomes zero<br>B. Becomes maximum<br>C. Becomes minimum<br>D. Remain constant  |
| 5  | Swimming becomes possible because of _____ law of motion.  | A. First<br>B. Second<br>C. Third<br>D. None of these  |
| 6  | Faraday's law of electromagnetic induction has been used in the construction of:                     | A. Galvanometer<br>B. Voltmeter<br>C. Electric motor<br>D. Electric generator<br>E. Commutator   |
| 7  | Speed of light in vacuum depends upon:   | A. Frequency<br>B. Wavelength<br>C. Amplitude<br>D. None of these  |
| 8  | To display a digit of EIGHT, the number of ON LED'S are:   | A. Two<br>B. Three<br>C. Five<br>D. Seven<br>E. Eight  |
| 9  | The SI unit of viscosity is  | A. $\text{kg m}^{-1} \text{s}^{-1}$<br>B. $\text{kg ms}^{-1}$<br>C. $\text{kg m}^{-1} \text{s}^{-2}$<br>D. $\text{kg m}^{-1} \text{s}$ |
| 10 | The nucleus of uranium -235 differs from a nucleus of a uranium -238 in that the later contains      | A. 3 more neutrons<br>B. 3 more electrons<br>C. 3 more protons<br>D. 3 more ions   |
| 11 | When brakes are applied to a fast moving car, the passenger will be thrown:                          | A. Forward<br>B. Backward<br>C. Downward<br>D. none of these   |
| 12 | When the charged particle is projected at right angles to the field, then experienced by it will be: | A. Maximum<br>B. Zero<br>C. $qvB$<br>D. Both (A) and (B)<br>E. Both (A) and (C)  |
| 13 | The unit of thermodynamical scale is   | A. centigrade<br>B. fahrenheit<br>C. kelvin<br>D. none of them   |
| 14 | Astrophysics is a branch of physics, which deals with:   | A. Sub-atomic particles<br>B. Stars and galaxies<br>C. Light and sound<br>D. Music   |

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| 15 | A swing has   | <p>A. one natural frequency</p> <p>B. two natural frequencies</p> <p>C. three natural frequencies</p> <p>D. four natural frequencies</p>   |
| 16 | In a charged capacitor the energy is stored in  | <p>A. Both in positive and negative charges</p> <p>B. Positive charges</p> <p>C. The edges of the capacitor plates</p> <p>D. The electric field between the plates</p>                                   |
| 17 | Which one of the following relations is correct?  | <p>A. <math>1 \text{ Wb-m}^2 = \text{Nm}^{-1}</math></p> <p>B. <math>1 \text{ tesla} = 104 \text{ gauss}</math></p> <p>C. <math>1 \text{ Wb-m}^2 = 1 \text{ tesla}</math></p> <p>D. All of the above</p> |
| 18 | Albert Einstein got the Nobel prize in physics for his explanation of photoelectric effect in | <p>A. 1916</p> <p>B. 1919</p> <p>C. 1921</p> <p>D. 1923</p>  |
| 19 | Which one of the following causes production of heat when current is set up in a wire?        | <p>A. Fall of electrons from higher orbits to lower orbits</p> <p>B. Inter-atomic collisions</p> <p>C. Inter-electron collisions</p> <p>D. Collisions of conduction electron with atoms</p>              |
| 20 | For making cooking utensils, which of the following pairs of properties is most suited?       | <p>A. Low specific heat and high conductivity</p> <p>B. Low specific heat and low conductivity</p> <p>C. High specific heat and high conductivity</p> <p>D. High specific heat and low conductivity</p>  |