

Physics ECAT Pre Engineering Chapter 19 Dawn of Modern Physics Physics Online Test

| Sr | Questions | Answers Choice |
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| 1 | If A represents linear momentum and c , the velocity of light, then unit of pc in international system of units is: | A. Newton B. Joule C. Joule-Sec D. Joule-s ⁻¹ E. Watt |
| 2 | Max Planck received the Nobel Prize for his discovery of energy quants in: | A. 1718 AD B. 1918 AH C. 1818 AD D. 1918 AD E. None of these |
| 3 | The ratio of energy E to the corresponding frequency (f) of the radiation (emitted or absorbed) is called: | A. Wien's constant B. Stefen's constnat C. Planck's constant D. Boltzmann's constant E. None of these |
| 4 | Wien's constant is measured in: | A. Metre per kelviin B. Metre kelvin C. Kelvin per meter D. Joules E. Dynes |
| 5 | The intensity of emitted energy (with wavelength) radiated from a black body at different temperatures was initially measured by: | A. Lummer B. Planck C. Pringsheim D. Both (A) and (B) E. Both (A) and (C) |
| 6 | When platinum wire is heated, then at the temperature of 500 °C, it becomes: | A. Yellow B. Orange red C. Dull red D. White E. Cherry red |
| 7 | The nature of radiations emitted by a hot body depends upon its: | A. Metarial B. Temperature C. colour D. Volume E. Length |
| 8 | When the atomic particle are moving with velocities approaching that of light: | A. Newton's laws become valid B. Relativistic effects become prominent C. Botha(A) and (B) are valid D. Neither (A)nor (B) E. There mass becomes zero. |
| 9 | As compared to the distance measured by an observer on Earth, the distance from Earth to a star measured by an observer in a moving spaceship would seem: | A. Smaller B. Lerger C. Same D. Much larger E. None of these |
| 10 | the dilation of time applies to the timing processes which are: | A. Physical B. Chemical C. Biological D. All of these E. None of these |
| 11 | Due to relative motion of observer and the frame of reference of events, time always: | A. Dilates itself B. Contracts itself C. Stretches itself D. Both (A) and (C) E. None of these |
| 12 | Practically the quantity v/c is always: | A. less than one B. Equal to one C. Greater then one D. all of these E. None of these |
| 13 | | A. Dilated time B. Proper time C. ... |

13 the symbol to be used in relativity problems denotes:

- C. Live time
- D. Half time
- E. None of these

14 There is no way to detect:

- A. Absolute uniform motion
- B. Accelerated motion
- C. State rest
- D. State of motion
- E. None of these

15 The special theory of relativity is based on:

- A. Four postulates
- B. Three postulates
- C. Two postulates
- D. One postulate
- E. None of these