

**Modern Physics QUESTIONS**

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1) Particles which can be added to the nucleus of an atom without changing its chemical properties are;-

- >electrons
- >protons
- >neutrons
- >a-particles

**Answer:**

- >neutrons
- 

2) The fuel used in nuclear power plants is;-

- >U-235
- >U-238
- >U-236
- >U-239

**Answer:**

- >U-235
- 

3) Heavy water is used as a moderator a nuclear reactor. The function of the moderator is:-

- >to control the energy released in the reactor
- >to absorb neutrons and stop the chain reaction
- >to cool the reactor
- >to slow down the neutrons to thermal energy

**Answer:**

- >to slow down the neutrons to thermal energy
- 

4) Curie is a unit of-

- >energy of gamma rays
- >half life
- >intensity of gamma rays
- >radioactivity

**Answer:**  
>radioactivity

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5) The strongest force in the nature is-

- >electric force
- >gravitational force
- >nuclear force
- >magnetic force

**Answer:**  
>nuclear force

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6) Atomic power plant works on the principle of-

- >fission
- >thermal combustion
- >fusion
- >combined effect of all the three

**Answer:**  
>fission

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7) An atomic pile is used for-

- >producing X-rays
- >conducting nuclear fission
- >conducting thermonuclear fission
- >temperature

**Answer:**  
>conducting nuclear fission

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8) The mass energy relation is the out come of-

- >quantum theory
- >general theory of relativity
- >field theory of relativity
- >special theory of relativity

**Answer:**  
>special theory of relativity

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9) The fourth state of matter is known as-

- >gas
- >vapour
- >plasma
- >electrons

**Answer:**

- >plasma
- 
- 

10) Energy is continuously generated in the sun due to-

- >Nuclear fusion
- >nuclear fission
- >Radioactivity
- >artificial radioactivity

**Answer:**

- >Nuclear fusion
- 
- 

11) The phenomenon of ejection of electrons from the surface of metals when light of suitable wavelength falls on it is known as-

- >Electrolysis
- >Ionization
- >Photo electric effect
- >none of these

**Answer:**

- >Photo electric effect
- 
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12) A nuclear reactor harnesses nuclear energy by-

- >uncontrolled chain reaction
- >nuclear fusion
- >spontaneous fission
- >controlled chain reaction

**Answer:**

- >controlled chain reaction
- 
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13) If a U-238 nucleus splits into two identical parts the two nuclei so produced will be-

- >Radioactive
- >Stable
- >Isotopes
- >Isobars

**Answer:**  
>Stable

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14) The first explosion of an atomic device in India was carried out in the state of

- >Jammu and Kashmir
- >Nagaland
- >Manipur
- >Rajasthan

**Answer:**  
>Rajasthan

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15) Direct conversion of solar energy with the use of photovoltaic cell results in the production of-

- >Optical energy
- >electrical energy
- >thermal energy
- >mechanical energy

**Answer:**  
>electrical energy

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16) The technique of collecting information about an object from a distance without making physical contact with it is -

- >remote sensing
- >remote control
- >remote accessing
- >space shuttle

**Answer:**  
>remote sensing

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17) What does the term Dolby B or Dolby C printed on tape recorders and other sound systems refer to ?

- >Frequency modulated system
- >amplitude modulated system
- >noise reduction circuit
- >both DC and AC power can be used

**Answer:**  
>noise reduction circuit

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