

# NUCLEAR PHYSICS AND CONDUCTIVITY BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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**Q1.** Photovoltaic cell is related to

- a) Solar Energy
  - b) Geo Thermal Energy
  - c) Nuclear Energy
  - d) Wind Energy
- 

**Q2.** India's first atomic power station is

- a) Narora Atomic Power Station
  - b) Tarapur Atomic Power Station
  - c) BARC
  - d) None of the above
- 

**Q3.** The principle of atomic bomb is based on

- a) Above both
  - b) Nuclear fission
  - c) Nuclear fusion
  - d) Above none
- 

**Q4.** The atomic power plants are located at

- Narora
- Ghatshila
- Kalpakkam
- Nangal

Select the correct answer from the codes given below. Code

- a) Only 4
- b) 1 and 3
- c) 2 and 4
- d) Only 2

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**Q5.** The atomic power plant which became active recently is located at

- a) Tarapore
- b) Narora
- c) Kalpakkam
- d) Kaiga

**Q6.** What is true for Kalpakkam Fast Breeder Reactor?

- In it, only natural uranium is used as a fuel.
- In it, Plutonium carbide and natural uranium carbide mixture are used as a fuel.
- More than 200 M Watt atomic electricity would be produced from it.

Choose the correct answer from the following alternatives.

- a) 2 and 3
- b) 1 and 3
- c) 1 and 2
- d) 1, 2 and 3

**Q7.** Consider the following statements about nuclear fusion reactors.

- They work on the principle of fission of heavy nuclei.
- They usually have Tokamak design.
- They operate at very high temperature.

Of these

- a) Only 2 and 3 are correct
  - b) Only 1 and 2 are correct
  - c) Only 1 and 3 are correct
  - d) All the three are correct
- 

**Q8.** The important nuclear fuel available in India in abundance is

- a) Iridium
  - b) Thorium
  - c) Uranium
  - d) Plutonium
- 

**Q9.** The Government of India has totally banned the export of Burnt coal (Jhama) because it contains recoverable amount of a metal/ element which is used in transistors. Which one of the following is that element?

- a) Germanium
  - b) Silicon
  - c) Phosphorus
  - d) Tungsten
- 

**Q10.** The Nuclear doctrine of India contains

- a) Minimum Credible deterrence
  - b) Unilateral moratorium
  - c) No first use
  - d) All of the above
- 

**Q11. Assertion (A):**

Copper rods are generally preferred to iron rods for making lightning conductors.

**Reason (R):**

Copper is better conductor of electricity than iron and is not easily oxidized under

atmospheric conditions.

Code

- a) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
  - b) (A) is true, but (R) is false
  - c) Both (A) and (R) are true and (R) is the correct explanation of (A)
  - d) (A) is false, but (R) is true
- 

**Q12.** Photovoltaic cells are

- a) Sulphur cells
- b) Thermal cells
- c) Solar cells
- d) Molar cells

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**Q13.** Among the following radiations, which has the highest energy?

- a) Ultra-violet
  - b) X-ray
  - c) Visible
  - d) Infra-red
- 

**Q14.** The half-life of a radioactive element is 5 years, then the fraction of the radioactive substance that remains after 20 years is

- a)  $1/8$
- b)  $1/4$
- c)  $1/2$
- d)  $1/16$

**Q15.** Consider the following statements.

- The Nuclear Security Summits are periodically held under the aegis of the United Nations.
- The International Panel on Fissile Materials is an organ of International Atomic Energy Agency.

Which of the statements given above is/are correct?

- a) Both 1 and 2
- b) Only 2
- c) Only 1
- d) Neither 1 nor 2

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**Answers to the above questions :**

**Q1. Answer: (a)**

**Q2. Answer: (b)**

**Q3. Answer: (b)**

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**Q4. Answer: (b)**

**Q5. Answer: (d)**

**Q6. Answer: (a)**

**Q7. Answer: (a)**

**Q8. Answer: (b)**

**Q9. Answer: (a)**

**Q10. Answer: (d)**

**Q11. Answer: (c)**

**Q12. Answer: (c)**

**Q13. Answer: (b)**

**Q14. Answer: (d)**

**Q15. Answer: (d)**

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