

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

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Q1. Which one of the following is the source of renewable energy in stars?

- a) Decay of radioactive material
 - b) Helium changes into hydrogen
 - c) Hydrogen changes into helium
 - d) Excess of oxygen which is helpful in burning and generate energy
-

Q2. The official code name of Pokhran nuclear test 1974, was

- a) Flying Garud
 - b) Thunder Bolt
 - c) Smiling Buddha
 - d) Agni Pareeksha
-

Q3. The energy of Sun is released due to

- a) Oxidation reactions
 - b) Nuclear fusion
 - c) Nuclear fission
 - d) Reduction reactions
-

Q4. Who is present director of 'BARC'?

- a) G. Madhavan Nayar
- b) R.K. Sinha
- c) Satish Dhawan

d) Dr. Ramanna

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Q5. Which one of the following cannot be used as a nuclear fuel?

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

Q6. The conductivity of a semiconductor at zero degree Kelvin is

- a) 10^{-1} ohm
- b) 10^{-5} ohm
- c) 10^5 ohm
- d) Zero

Q7. Which one of the following is not radioactive?

- a) Tritium
- b) Francium
- c) Astatine
- d) Zirconium

Q8. Which one of the following is not correct?

- a) 'Dry ice' is nothing but solid carbon dioxide
- b) The breaking apart of the nucleus of an atom is called fusion
- c) Theory of evolution was propounded by Charles Darwin

d) Telephone was invented by Graham Bell

Q9. The fuel used in Fast Breeder Test Reactor at Kalpakkam is

- a) Plutonium
 - b) Thorium
 - c) Enriched Uranium
 - d) Tungsten
-

Q10. In the modern day's nuclear medicine plays a vital role in Medical Science, it is exactly

- a) They are radio isotopes
 - b) They are infusion of herbs
 - c) They are drugs
 - d) They are chlorofluorocarbons
-

Q11. Radioactive substance emits

- a) Gamma rays
 - b) Beta rays
 - c) Alpha rays
 - d) All of these
-

Q12. To meet its rapidly growing energy demand some opine that India should pursue research and development on thorium as the future fuel of nuclear energy. In this context, what advantage does thorium hold over uranium?

- Thorium is far more abundant in nature than uranium.
- On the basis of per unit mass of mined mineral, thorium can generate more energy compared to natural uranium.
- Thorium produces less harmful waste compared to uranium.

Which of the statement(s) given above is/are correct?

- a) 1 and 3

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

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Q13. The Indira Gandhi Atomic Research Centre is located in

- a) Uttar Pradesh
- b) Tamil Nadu
- c) Maharashtra
- d) Karnataka

Q14. The working principle of atom bomb is nuclear fission of uranium and the working principle of hydrogen bomb is

- a) Explosion of bomb involving hydrogen gas
- b) Nuclear fission of thorium
- c) Nuclear fusion of deuterium
- d) Explosion involving dynamite and T.N.T.

Q15. Fast breeder reactor is a nuclear reactor which produces electricity

- a) By burning phenyl substances used by it and by its reproduction
- b) With the help of solar cells
- c) By fusion process
- d) By using refined hard water

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Answers to the above questions :

Q1. Answer: (c)

Q2. Answer: (c)

Q3. Answer: (b)

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MEASURING DEVICES AND SCALES

MECHANICS (MASS, FORCE, ACCELERATION, WORK, ENERGY, MOMENTUM, VELOCITY)

FORCE OF GRAVITY, SOLIDS AND FLUIDS

MOTION UNDER GRAVITY

PHYSICAL PROPERTIES OF MATERIALS

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NUCLEAR PHYSICS AND CONDUCTIVITY

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FOOD PRODUCTION

BIOLOGY IN HUMAN WELFARE

ECOLOGY AND ENVIRONMENT AWARENESS

GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (b)

Q5. Answer: (a)

Q6. Answer: (d)

Q7. Answer: (d)

Q8. Answer: (b)

Q9. Answer: (a)

Q10. Answer: (a)

Q11. Answer: (d)

Q12. Answer: (d)

Q13. Answer: (b)

Q14. Answer: (c)

Q15. Answer: (c)

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