

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

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Q1. Which of the following nuclear power plants has the highest total installed capacity?

- a) Kudankulam
 - b) Kaiga
 - c) Kakrapar
 - d) Tarapur
-

Q2. One of these particles is claimed to have invented which rebut the Einstein's theory of relativity.

- a) Liquid crystal
 - b) Neutrino
 - c) Micro-wave Photon
 - d) Light emitting diode
-

Q3. Which Uranium isotope is used in nuclear power plants to produce electricity?

- a) U-235
 - b) U-234
 - c) U-233
 - d) U-239
-

Q4. Which statement is not associated with nuclear fission?

- a) Source of energy in nuclear reactor that produces electricity
- b) Energy generation in stars

- c) Neutron-induced nuclear reaction
- d) Enormous energy is released in an atom bomb

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Q5. Which one of the following is used as a moderator in the nuclear reactor?

- a) Radium
- b) Graphite
- c) Thorium
- d) Ordinary water

Q6. With reference to technologies for solar power production, consider the following statements.

- 'Photovoltaics' is a technology that generates electricity by direct conversion of light into electricity, while 'Solar Thermal' is a technology that utilizes the Sun's rays to generate heat which is further used in electricity generation process.
- Photovoltaics generates Alternating Current (AC), while Solar Thermal generates Direct Current (DC).
- India has manufacturing base for Solar Thermal Technology, but not for Photovoltaics.

Which of the statements given above is/are correct?

- a) 1, 2 and 3
- b) Only 2 and 3
- c) Only 1
- d) None of these

Q7. At absolute zero temperature, the electric resistance in semiconductor is

- a) Meager
- b) High
- c) Infinite

d) Zero

Q8. Kalpakkam is famous

- a) Due to rocket launching centre
 - b) Due to defence laboratory
 - c) Due to nuclear power plant
 - d) Due to space centre
-

Q9. Cyclotrons are used to accelerate

- a) Atoms
 - b) Protons
 - c) Neutrons
 - d) Ions
-

Q10. Which one of the following pairs is not correctly matched?

- a) Theory of energy production in the Sun and stars - H.A. Bethe
 - b) Discovery of Positron - C.D. Anderson and U.F. Hess
 - c) Discovery of Meson - Hideki Yukawa
 - d) Synthesis of transuranic elements - Enrico Fermi
-

Q11. Heavy water is manufactured in India at

- a) Delhi
 - b) Assam
 - c) Trombay
 - d) Bhilai
-

Q12. In May, 1998 India had conducted 5 nuclear tests at Pokhran. In which state does Pokhran lie?

- a) Punjab
- b) Rajasthan
- c) Gujarat
- d) Himachal Pradesh

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Q13. Which metal can be used for producing electricity?

- a) Copper
- b) Iron
- c) Uranium
- d) Aluminium

Q14. The most commonly used material for making transistors is

- a) Silicon
- b) Copper
- c) Aluminium
- d) Silver

Q15. The stars receive their energy from which of the following?

- a) Chemical reaction
- b) Nuclear fission
- c) Nuclear fusion
- d) Gravitational pull

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Answers to the above questions :

Q1. Answer: (d)

Q2. Answer: (c)

Q3. Answer: (a)

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BIOLOGY IN HUMAN WELFARE

ECOLOGY AND ENVIRONMENT AWARENESS

GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (b)

Q5. Answer: (b)

Q6. Answer: (c)

Q7. Answer: (c)

Q8. Answer: (c)

Q9. Answer: (b)

Q10. Answer: (d)

Q11. Answer: (c)

Q12. Answer: (b)

Q13. Answer: (c)

Q14. Answer: (a)

Q15. Answer: (c)

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