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Power Plant Engineering MCQ - S 01

MCQ Power Plant

Practice Test: Question Set - 01

1. Enriched uranium is required as a fuel in a nuclear reactor, if l is used as moderator and coolant, because light water has

- (A) High neutron absorption cross-section
- (B) Low moderating efficiency
- (C) High neutron scatter cross-section
- (D) Low neutron absorption cross-section

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Correct Answer

2. The efficiency of a nuclear power plant in comparison to conve and nuclear consideration is

- (A) Higher cost of nuclear fuel
- (B) High initial cost
- (C) High heat rejection in condenser
- (D) Lower temperature and pressure conditions

Correct Answer

3. The control rods in the control system of nuclear reactors are u

- (A) Absorb excess neutrons
- (B) Control fuel consumption
- (C) Control temperature
- (D) All of these

Correct Answer

4. Electron volt is the unit of

- (A) Atomic power
- (B) Energy
- (C) Voltage
- (D) Radio activity

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Correct Answer

5. A moderator, in nuclear power plants, is a medium introduced fuel mass in order to

- (A) Slow down the speed of fast moving neutrons
- (B) Control the reaction
- (C) Reduce the temperature
- (D) Extracts heat from nuclear reaction

Correct Answer

6. One gram of uranium will produce energy equivalent to approx

- (A) 1 tonne of high grade coal
- (B) 4.5 tonnes of high grade coal
- (C) 10 tonnes of high grade coal
- (D) 100 tonnes of high grade coal

Correct Answer

7. Which of the following type of pump is used in liquid metal coo for circulation of liquid metal

- (A) Centrifugal
- (B) Axial
- (C) Reciprocation
- (D) Electromagnetic

Correct Answer

8. Where reactor operation is designed with fast neutrons such as in reactors using highly enriched fuel, the moderator used is

- (A) Heavy water
- (B) Graphite
- (C) Carbon dioxide
- (D) No moderator is needed

Correct Answer

9. The nuclear energy is measured as

- (A) MeV
- (B) Curie
- (C) Farads
- (D) MW

Correct Answer

10. Isotopes of same elements have

- (A) Same atomic number and different masses
- (B) Same chemical properties but different atomic numbers
- (C) Different masses and different atomic numbers
- (D) Different chemical properties and same atomic numbers

Correct Answer

11. A boiling water reactor uses following as fuel

- (A) Enriched uranium
- (B) Plutonium
- (C) Thorium
- (D) U

Correct Answer

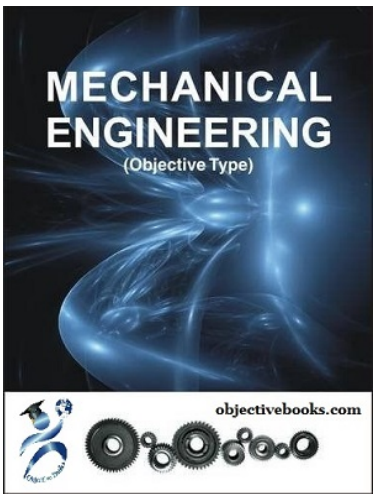
12. Which of the following statement is correct regarding the features of a Breeder reactor?

- (A) It produces more fuel than it consumes
- (B) It requires highly enriched fuel
- (C) It requires liquid sodium metal as moderator
- (D) All of the above

Correct Answer

13. In nuclear fission each neutron that causes fission releases

- (A) No new neutron
- (B) At least one new neutron
- (C) One new neutron
- (D) More than one new neutron



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Power Plant Engineering Objectiv Questions and Answers - Set 02

MCQ Power Plant

Practice Test: Question Set - 02

1. The process by which a heavy nucleus is spitted into two light n known as

- (A) Splitting
- (B) Fission
- (C) Fusion
- (D) Disintegration

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Correct Answer

2. Which of the following is more appropriate for a moderator? O

(A) Does not absorb neutrons
(B) Absorbs neutrons
(C) Accelerates neutrons
(D) Eats up neutrons

Correct Answer

3. A nuclear reactor is said to be critical when the neutron popula reactor core is

(A) Rapidly increasing leading to the point of explosion
(B) Decreasing from the specified value
(C) Reduced to zero
(D) Constant

Correct Answer

4. The most commonly used moderator in nuclear plants is

(A) Heavy water
(B) Concrete and bricks
(C) Graphite and concrete
(D) Graphite

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Correct Answer

5. Reactors for propulsion applications are designed for

(A) Any form of uranium

(B) Natural uranium

(C) Enriched uranium

(D) Plutonium

Correct Answer

6. The following present serious difficulty in designing reactor sh

(A) Alpha particles

(B) Beta particles

(C) Thermal neutrons

(D) Fast neutrons and gamma rays

Correct Answer

7. Ferrite material is

(A) The most fissionable material

(B) The basic fuel for nuclear paints

(C) Basic raw material for nuclear plants

(D) The material which absorbs neutrons and undergoes spontaneo changes leading to the formation of fissionable material

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Correct Answer

8. Reflector in nuclear power plants _____ neutron leakage.

- (A) Increases
- (B) Decreases
- (C) Have no effect on
- (D) None of these

Correct Answer

9. Effective moderators are those materials which contain

- (A) Light weight atoms
- (B) Heavy weight atoms
- (C) Critical atoms
- (D) Zero weight atoms

Correct Answer

10. The fuel needed, with reflector in nuclear power plant, in order to generate sufficient neutrons to sustain a chain reaction, would be

- (A) More
- (B) Less
- (C) Same
- (D) Zero

Correct Answer

11. Nuclear reactors are used

- (A) To produce heat for thermoelectric power
- (B) To produce fissionable material
- (C) To propel ships, submarines, aircrafts
- (D) All of these

Correct Answer

12. The main interest of shielding in nuclear reactor is protection against

- (A) X-rays
- (B) Infrared rays
- (C) Neutrons and gamma rays
- (D) Electrons

Correct Answer

13. Breeder reactors employ liquid metal coolant because it

- (A) Acts as good moderator
- (B) Produces maximum steam
- (C) Transfers heat from core at a fast rate
- (D) Breeds neutrons

Correct Answer

14. The coolant used in boiling water reactor is

- (A) CO_2
- (B) Pressurised water
- (C) Mixture of water and steam
- (D) Liquid metal

Correct Answer

15. A moderator

- (A) Absorbs neutrons
- (B) Does not absorb neutrons
- (C) Accelerates neutrons
- (D) None of these

Correct Answer

View All Answers

(1) Answer: Option B (2) Answer: Option A (3) Answer: Option D (4) Answer: Option D (5) Answer: Option C (6) Answer: Option D (7) Answer: Option D (8) Answer: Option B (9) Answer: Option A (10) Answer: Option B (11) Answer: Option D (12) Answer: Option D (13) Answer: Option C (14) Answer: Option C (15) Answer: Option B

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Theory test practice power plant engineering - Set 03

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Practice Test: Question Set - 03

1. A nuclear fission is initiated when the critical energy as compar neutron binding energy of the atoms is

- (A) Same
- (B) More
- (C) Less
- (D) There is no such criterion

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Correct Answer

2. In a thermal power plant, coal from the coal handling plant is r the boiler bunker through a

- (A) Belt conveyor
- (B) Bucket conveyor
- (C) Fork lift truck
- (D) Overhead crane

Correct Answer

3. In the breeder reactors the generation of new fissionable atom

- (A) At the lower rate than the consumption
- (B) At a higher rate than the consumption
- (C) At an equal rate of the consumption
- (D) Depends on other considerations

Correct Answer

4. The most practical fuel for a thermonuclear reactor, both from economical and nuclear consideration is

- (A) Plutonium
- (B) Uranium
- (C) Deuterium
- (D) Thorium

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Correct Answer

5. A power plant giving least running cost of production of electri is

- (A) Steam power plant
- (B) Gas turbine power plant
- (C) Hydro electric power plant
- (D) Nuclear power plant

Correct Answer

6. The breeding gain in case of thermal breeder reactor as compa breeder reactor is

- (A) Same
- (B) Lower
- (C) Higher
- (D) Unity

Correct Answer

7. The energy produced by a thermal reactor of same size as a bre reactor is

- (A) Almost same
- (B) Slightly more
- (C) Slightly less

(D) Much less

Correct Answer

8. Which of the following nuclear reactor does not need a heat exchanger for generation of steam?

(A) Gas cooled

(B) Liquid metal cooled

(C) Pressurised water

(D) Boiling water

Correct Answer

9. Reactors designed for propulsion applications are designed for

(A) Natural uranium

(B) Enriched uranium

(C) Pure uranium

(D) Any type of uranium

Correct Answer

10. The primary fuel used in nuclear power plants is

(A) U_{235}

(B) U_{238}

(C) Pu_{239}

(D) Pu_{233}

Correct Answer

11. In natural uranium, the constituents of three naturally occurring isotopes are

- (A) U_{234} = 0.006%, U_{235} = 0.712% and U_{238} = 99.282%
- (B) U_{234} = 0.712%, U_{235} = 0.006% and U_{238} = 99.282%
- (C) U_{234} = 99.282%, U_{235} = 0.006% and U_{238} = 0.712%
- (D) U_{234} = 0.006%, U_{235} = 99.282% and U_{238} = 0.712%

Correct Answer

12. The commonly used material for shielding is

- (A) Lead or concrete
- (B) Lead and tin
- (C) Graphite or cadmium
- (D) Thick galvanized sheets

Correct Answer

13. When a reactor becomes critical, then the production of neutrons is

- (A) Infinite
- (B) Zero
- (C) Exactly balanced by the loss of neutrons through leakage
- (D) Initiated

Correct Answer

14. A nuclear unit becoming critical means

- (A) It is generating power to rated capacity
- (B) It is capable of generating much more than rated capacity
- (C) There is danger of nuclear spread
- (D) Chain reaction that causes automatic splitting of the fuel nuclei has been established

Correct Answer

15. The predominant isotope of the naturally occurring element is

- (A) U_{235}
- (B) U_{238}
- (C) Pu_{233}
- (D) Pu_{239}

Correct Answer

View All Answers

(1) Answer: Option B (2) Answer: Option A (3) Answer: Option B (4) Answer: Option C (5) Answer: Option D (6) Answer: Option B (7) Answer: Option D (8) Answer: Option D (9) Answer: Option B (10) Answer: Option A (11) Answer: Option A (12) Answer: Option A (13) Answer: Option C (14) Answer: Option D (15) Answer: Option B

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Practice Test: Question Set - 04

1. The function of control rods in nuclear plants is to

(A) Control temperature

(B) Control radioactive pollution

(C) Control absorption of neutron

(D) Control fuel consumption

Correct Answer

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2. Reflector in nuclear plants is used to

- (A) Return the neutrons back into the core
- (B) Shield the radioactivity completely
- (C) Check pollution
- (D) Conserve energy

Correct Answer

3. A fission chain reaction in uranium can be developed

- (A) By increasing the contents of U_{235}
- (B) By slowing down fast neutrons so that U_{235} fission continues by neutron
- (C) Both (A) and (B)
- (D) None of these

Correct Answer

4. Pick up the wrong statement

- (A) In a heterogeneous or solid fuel reactor, the fuel is mixed in a re pattern within moderator
- (B) Slow or thermal neutrons have energy of the order or 0.025 eV
- (C) Fast neutrons have energies above 1000 eV
- (D) Fast reactor uses moderator

Correct Answer

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5. Moderator in nuclear plants is used to

(A) Reduce temperature

(B) Extract heat from nuclear reaction

(C) Control the reaction

(D) Cause collision with the fast moving neutrons to reduce their sp

Correct Answer

6. U_{233} is produced

(A) Artificially

(B) As basic raw material

(C) When thorium is irradiated by neutrons

(D) By fission of U_{238}

Correct Answer

7. Solid fuel for nuclear reactions may be fabricated into various shapes such as

(A) Plates

(B) Pallets

(C) Pins

(D) Any one of the above

Correct Answer

8. In fast breeder reactors

(A) Any type of moderator can be used

(B) Graphite is used as the moderator

(C) Heavy water is used as the moderator

(D) Moderator is dispensed with

Correct Answer

9. Uranium has isotopes

(A) U_{234}

(B) U_{235}

(C) U_{238}

(D) All of these

Correct Answer

10. Each fission of U_{235} produces following number of fast neutrons per fission

(A) 1 neutron

(B) 3 neutrons

(C) 1, 2 neutrons

(D) 2 neutrons

Correct Answer

11. Enriched uranium is one in which

(A) Percentage of U_{235} has been artificially increased

(B) Percentage of U has been artificially increased

(C) Percentage of U_{234} has been artificially increased

(D) Extra energy is pumped from outside

Correct Answer

12. A fission chain reaction in uranium can be developed by

(A) Slowing down fast neutrons so that Uz fission continues by slow motion neutrons

(B) Accelerating fast neutrons

(C) Absorbing all neutrons

(D) Using moderator

Correct Answer

13. The energy released during the fission of one atom of Uranium 235 in million electron volts is about

(A) 100

(B) 200

(C) 300

(D) 400

Correct Answer

14. Boiling water reactor employs

(A) Boiler

(B) Direct cycle of coolant system

(C) Double circuit system of coolant cycle

(D) Multi passes system

Correct Answer

15. The efficiency of a nuclear power plant in comparison to a conventional thermal power plant is

(A) Same

(B) More

(C) Less

(D) May be less or mote depending on size

Correct Answer

View All Answers

(1) Answer: Option C (2) Answer: Option A (3) Answer: Option C (4) Answer: Option D (5) Answer: Option D (6) Answer: Option C (7) Answer: Option D (8) Answer: Option D (9) Answer: Option D (10) Answer: Option D (11) Answer: Option A (12) Answer: Option A (13) Answer: Option B (14) Answer: Option B (15) Answer: Option C

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Power plant engineering practice online - Set 05

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Practice Test: Question Set - 05

1. The material most commonly used for shielding is

(A) Carbon

(B) Lead

(C) Concrete

(D) All of these

Correct Answer

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2. Reactors for propulsion applications use

- (A) Natural uranium
- (B) Molten lead
- (C) Any form of uranium
- (D) Thorium

Correct Answer

3. The presence of reflector in nuclear power plants results in

- (A) Increased production of neutrons
- (B) Complete absorption of neutrons
- (C) Controlled production of neutrons
- (D) Decreased leakage of neutrons

Correct Answer

4. Gas cooled reactor uses following materials as moderator, and

- (A) Graphite, CO_2
- (B) Graphite, air
- (C) Heavy water, CO_2
- (D) Lead, H_2

Correct Answer

5. A moderator generally used in nuclear power] s is

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(A) Graphite

(B) Heavy water

(C) Concrete

(D) Graphite and concrete

Correct Answer

6. Which of the following particles is the lightest?

(A) Nucleus

(B) Electron

(C) Proton

(D) Meson

Correct Answer

7. The mass number of a substance represents the sum of total nu

(A) Protons and neutrons in an atom

(B) Protons and electrons in an atom

(C) Neutrons and electrons in an atom

(D) Protons and neutrons in a nucleus

Correct Answer

8. A moderator, apart from its high neutron slowing power, and l non-productive neutron, should be

(A) Stable under nuclear radiation

(B) Corrosion resistant

(C) Good thermal conductor

(D) All of these

Correct Answer

9. A pressurized water reactor employs pressurizes for the following application

(A) To maintain constant pressure in primary circuit under varying load

(B) To Supply high pressure steam

(C) To increase pressure of water in primary circuit

(D) To provide sub cooled water at high pressure

Correct Answer

10. Pressurized water reactor is designed

(A) For boiling pi water in the core

(B) To use liquid sodium metal as coolant

(C) To use intermediate coolant

(D) To prevent the water coolant from boiling in the core

Correct Answer

11. Which of the following are ferrite materials?

(A) U_{233} and Pu_{239}

(B) U

(C) U_{238} and Pu_{239}

(D) U_{238} and Th_{239}

Correct Answer

12. The secondary fuel used in nuclear power plants is

(A) U_{233} and Pu_{239}

(B) U_{235} and Th_{232}

(C) U_{235} and Pu_{238}

(D) U_{233} and Pu_{238}

Correct Answer

13. Atomic number of an element in the periodic table represents the numbers of

(A) Protons in the nucleus

(B) Electrons in the nucleus

(C) Neutrons in the nucleus

(D) Electrons in the atom

Correct Answer

14. Pick up the wrong statement fast breeder reactors

(A) Operate at extremely high power densities

(B) Are liquid metal cooled

(C) Produce more fuel than they consume

(D) Use water as coolant

Correct Answer

15. The nuclear radiators produced in a reactor which must be shielded are

(A) Electrons

(B) α, β and γ rays

(C) Neutron and gamma rays

(D) None of these

Correct Answer

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(1) Answer: Option C (2) Answer: Option B (3) Answer: Option D (4) Answer: Option A (5) Answer: Option D (6) Answer: Option B (7) Answer: Option D (8) Answer: Option D (9) Answer: Option A (10) Answer: Option D (11) Answer: Option B (12) Answer: Option A (13)Answer: Option A (14) Answer: Option D (15) Answer: Option C

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1. Breeder reactor has a conversion ratio of

(A) Unity

(B) More than unity

(C) Less than unity

(D) Zero

Correct Answer

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2. In triggering fission, the following types of neutrons are desira

- (A) Fast moving
- (B) Slow moving
- (C) Critical neutrons
- (D) Neutrons at rest

Correct Answer

3. Plutonium (Pu_{239}) is produced

- (A) Artificially
- (B) By fission of Th_{232}
- (C) When U_{238} is irradiated by neutrons
- (D) As basic raw material

Correct Answer

4. In order to have constant chain reaction to produce a constant heat output, the value of ratio of the number of neutrons in one g to the number of neutrons in the immediately preceding generati be

- (A) Greater than 1.0
- (B) Less than 1.0
- (C) Equal to zero
- (D) Equal to 1.0

Correct Answer

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5. A fast breeder reactor

- (A) Uses graphite rods as moderator
- (B) Has powerful moderator
- (C) Has no moderator
- (D) Uses ferrite material as moderator

Correct Answer

6. The energy required to be applied to a radioactive nucleus for t emission of a neutron is

- (A) 1 MeV
- (B) 2.4 MeV
- (C) 4.3 MeV
- (D) 7.8 MeV

Correct Answer

7. Which is not identical for an atom and an isotope?

- (A) Mass number
- (B) Atomic number
- (C) Chemical properties
- (D) Position in periodic table

Correct Answer

8. Natural uranium is made up of

(A) 99.282% U_{238}, 0.712% U_{235}, 0.006% U_{234}

(B) 99.282% U_{235}, 0.712% U_{238}, 0.06%' U_{234}

(C) 99.282% U_{234}, 0.712% U_{238}, 0.006% U_{235}

(D) 99.282% U_{235}, 0.712% U_{234}, 0.006% U_{238}

Correct Answer

9. In a fission process, maximum percentage of energy is released as

(A) Kinetic energy of neutrons

(B) Kinetic energy of fission products

(C) Instantaneous release of gamma rays

(D) Gradual radioactive decay of fission products

Correct Answer

10. A fast breeder reactor uses

(A) 90% U_{235}

(B) U_{238}

(C) U_{235}

(D) Pu_{239}

Correct Answer

11. Amongst the following, the fissionable materials are

(A) U_{233} and Pu_{229}

(B) U_{231} and Pu_{233}

(C) U_{235} and Pu_{235}

(D) U_{238} and Pu_{239}

Correct Answer

12. The total energy released in fission of U is

(A) 5 MeV

(B) 10 MeV

(C) 199 MeV

(D) 168 MeV

Correct Answer

13. Fast breeder reactor uses

(A) Boiler

(B) Direct cycle of coolant system

(C) Double circuit system of coolant cycle

(D) Multi passes system

Correct Answer

14. Which of the following is the heaviest?

(A) Neutron

(B) Proton

(C) Atom

(D) Electron

Correct Answer

15. A nuclear fission produces energy of following order in MeV

(A) 20

(B) 200

(C) 2000

(D) 20,000

Correct Answer

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(1) Answer: Option B (2) Answer: Option B (3) Answer: Option C (4) Answer: Option D (5) Answer: Option C (6) Answer: Option D (7) Answer: Option A (8) Answer: Option A (9) Answer: Option B (10) Answer: Option A (11) Answer: Option A (12) Answer: Option C (13) Answer: Option C (14) Answer: Option C (15) Answer: Option B

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1. The fast breeder reactor uses the following moderator

(A) Demineralised water

(B) Carbon dioxide

(C) Heavy water

(D) No moderator is used

Correct Answer

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2. Boiling water reactor uses the following as moderator, coolant working fluid

- (A) Ordinary fluid
- (B) Heavy water
- (C) Molten lead
- (D) Hydrogen gas

Correct Answer

3. Ideally the neutron flux in reactor should be

- (A) Maximum in centre and zero at side
- (B) Maximum at side and zero in canter
- (C) Uniform throughout
- (D) Zero throughout

Correct Answer

4. Enriched uranium may contain fissionable contents of the ord

- (A) 1-99%
- (B) 1-25%
- (C) 1-50%
- (D) 1-75%

Correct Answer

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5. U_{235} will undergo fission by

(A) High energy (fast) neutrons alone

(B) Low energy (slow) neutrons alone

(C) Either fast or slow neutrons

(D) Medium energy neutrons

Correct Answer

6. U_{238} will undergo fission by

(A) High energy (fast) neutrons alone

(B) Low energy (slow) neutrons alone

(C) Either fast or slow neutrons

(D) Medium energy neutrons

Correct Answer

7. A reactor capable of converting a ferrite material into fissile iso called

(A) Regenerative reactor

(B) Fast breeder reactor

(C) Breeder reactor

(D) Boiling water reactor

Correct Answer

8. Hydrogen is preferred as better coolant in con son to CO

former

- (A) Is lighter
- (B) Is inert
- (C) Has high specific heat
- (D) Is a good conductor

Correct Answer

9. The risk of radioactive hazard is greatest in the turbine with following reactor

- (A) Pressurised water
- (B) Boiling water
- (C) Gas cooled
- (D) Liquid metal cooled

Correct Answer

10. Plutonium is produced

- (A) As basic raw material
- (B) By neutron irradiation of Uz
- (C) By neutron irradiation of thorium
- (D) Artificially

Correct Answer

11. The unit of radioactivity is

(A) Electron volt

(B) Electron ampere

(C) Curie

(D) MV

Correct Answer

12. U_{233} is produced

(A) As basic raw material

(B) By neutron irradiation of Uz

(C) By neutron irradiation of thorium

(D) Artificially

Correct Answer

13. Plutonium (Pu_{239}) is produced

(A) Artificially

(B) When U_{238} is irradiated by neutrons

(C) By fission of Th_{232}

(D) As basic raw material

Correct Answer

14. Which of the following is the primary fuel?

(A) U_{233}

(B) U

(C) U_{238}

(D) Pu

Correct Answer

15. Which of the following can be used as a coolant in nuclear plant?

(A) Light or heavy water

(B) Molten lead

(C) Carbon dioxide

(D) Freon

Correct Answer

View All Answers

(1) Answer: Option D (2) Answer: Option A (3) Answer: Option C (4) Answer: Option A (5) Answer: Option C (6) Answer: Option A (7) Answer: Option A (8) Answer: Option C (9) Answer: Option B (10) Answer: Option B (11) Answer: Option C (12) Answer: Option C (13) Answer: Option B (14) Answer: Option B (15) Answer: Option A

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1. In triggering fission, which types of eutrons are more effectiv

- (A) Fast
- (B) Slow
- (C) In bulk
- (D) Static

Correct Answer

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2. For economical operation of a nuclear plant

- (A) Used fuel should be reprocessed
- (B) Moderator should be used
- (C) Coolant should be employed
- (D) Control rods should be used

Correct Answer

3. The size of the reactor is said to be critical when

- (A) Chain reaction can be initiated
- (B) It becomes uncontrollable
- (C) It explodes
- (D) It produces no power

Correct Answer

4. Superheated steam is generated in following reactor

- (A) Boiling water
- (B) Gas cooled
- (C) Pressurised water
- (D) All of the above

Correct Answer

5. In nuclear fission

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(A) The original elements change into completely different element

(B) The electrons of the element change

(C) The molecules rearrange themselves to form other molecules

(D) None of the above

Correct Answer

6. A fast breeder reactor uses following as fuel

(A) Enriched uranium

(B) Plutonium

(C) Thorium

(D) U_{235}

Correct Answer

7. Half life of a radioactive isotope corresponds to the time requi of the following to decay

(A) Electrons

(B) Protons

(C) Neutrons

(D) Atom

Correct Answer

8. In boiling water reactor, moderator is

(A) Coolant itself

(B) Ferrite rod

(C) Graphite rod

(D) Liquid sodium metal

Correct Answer

View All Answers

(1) Answer: Option B (2) Answer: Option A (3) Answer: Option A (4) Answer: Option B
(5) Answer: Option A (6) Answer: Option D (7) Answer: Option D (8) Answer: Option A

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