

Atomic and Nuclear Physics MCQs

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Atomic and Nuclear Physics MCQs

1. Elements which emit natural radioactivity are called as...

- A. radio elements
- B. active elements
- C. nuclear elements
- D. radioactive elements

Answer - Click Here:

D

2. When two light nuclei combine to form an heavier nucleus that process is said to be...

- A. nuclear fission
- B. nuclear transmutation
- C. nuclear power
- D. nuclear fusion

Answer - Click Here:

D

3. Alpha (α) particles are helium (He) nucleus with a charge of

- A. $2e$
- B. e
- C. $3e$
- D. $4e$

Answer - Click Here:

A

4. In SI base units, 1 Bq(Becquerel) is equal to

- A. 10 disintegration per second
- B. 5 disintegration per second
- C. 1 disintegration per second
- D. None of above

Answer - Click Here:

Search

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C

5. In air the alpha particles(α) have the range of

- A. few centimeters
- B. several thousand meters
- C. several hundred meters
- D. no limit

Answer - Click Here:

A

6. Radiations present in atmosphere due to different radioactive substances are called

- A. background radiations
- B. environmental radiations
- C. positive radiations
- D. cosmic radiations

Answer - Click Here:

A

7. A helium nucleus having two protons and two neutrons with a charge of $2e$ is...

- A. alpha particle
- B. beta particle
- C. gamma particle
- D. negative particle

Answer - Click Here:

A

8. Isotopes have same number of protons but having different number of...

- A. electrons
- B. neutrons
- C. shells
- D. positrons

Answer - Click Here:

B

9. Number of protons inside of the nucleus represents the ...

- A. atomic mass
- B. atomic number

- C. atomic count
- D. radioactivity level

[Answer - Click Here:](#)

B

10. Radiation emitted from splits into how many components...

- A. 2 components
- B. 3 components
- C. 4 components
- D. 5 components

[Answer - Click Here:](#)

B

11. Beta particles(β) are stream of high energy ...

- A. electrons
- B. protons
- C. neutrons
- D. none of above

[Answer - Click Here:](#)

A

12. Phenomenon by which radiations split matter into positive and negative ions is called

- A. ionization
- B. radiation
- C. transmutation
- D. radioactivity

[Answer - Click Here:](#)

A



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