

**Atomic Structure QUESTIONS**

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1) Neutron was discovered by:-

- >J.J.Thomson
- >Chadwick
- >Rutherford
- >Priestley

**Answer:**

- >Chadwick
- 

2) The constituent particle of a nucleus in an atom are--

- >electron and proton
- >proton and neutron
- >electron and neutron
- >electron, proton and neutron

**Answer:**

- >proton and neutron
- 

3) The  $\alpha$ -particle carries two positive charges. Its mass is very nearly equal to that of-

- >two protons
- >an atom of helium
- >sum of masses of two positrons and two neutrons
- >two positrons as each positron carries a single positive charge

**Answer:**

- >an atom of helium
- 

4) In an atom the order of filing up of the orbitals is governed by-

- >Aufbau principle
- >Heisenberg s uncertainty principle
- >Hund s rule
- >Pauli s exclusion principle

**Answer:**

## >Aufbau principle

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5) Regarding the atom of a chemical element, the magnetic quantum number refers to -

- >orientaton
- >shape
- >size
- >spin

**Answer:**

- >orientaton
- 

6) By which one of the following an old written material which can not be read easily can be read ?

- >y - rays
- >x -- rays
- >IR---rays
- >Radio frequency waves

**Answer:**

- >x -- rays
- 

7) Wavelength of which of the following colours of the visible spectrum of light are maximally absorbed by green plants-

- >green and yellow
- >red and blue
- >green and red
- >blue and yellow

**Answer:**

- >red and blue
- 

8) Which of the following has highest frequency ?

- >Cosmic rays
- >x-rays
- >Radio waves
- >Micro waves

**Answer:**

- >Cosmic rays
- 
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9) Which of the following electromagnetic wave has the longest wave length ?

- > Infra red rays
- > Gamma rays
- > Light rays
- > Ultra violet rays

**Answer:**

- > Infra red rays
- 
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10) Which of the following has the longest wave length ?

- > ultraviolet radiation
- >  $\gamma$ -radiation
- > visible radiation
- > infra red radiation

**Answer:**

- > infra red radiation
- 
- 

11) Which electromagnetic radiation is emitted by radioactive substances-

- >  $\gamma$ -rays
- > Radio waves
- > micro waves
- > x-ray

**Answer:**

- >  $\gamma$ -rays
- 
- 

12) Wave length of X-rays is of the order of-

- > 1 mm
- > 1 cm
- > 1 micron
- > 1 angstrom

**Answer:**

- > 1 angstrom
- 
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13) Propagation of light quanta may be described by -

- > photons
- > protons
- > neutrons
- > electrons

**Answer:**  
>photons

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14) Which of the following is not electromagnetic in nature-

- >cathode rays
- >x-rays
- >y-rays
- >infrared-rays

**Answer:**  
>cathode rays

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15) Which one of the following elements has two electrons in the K-shell only-

- >Hydrogen
- >Helium
- >Neon
- >Sulphur

**Answer:**  
>Helium

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16) Whose experiment proved that the speed of light was always the same-

- >James clark maxwell
- >Michelson and Morley
- >Miller and Stanley
- >Werner Heisenberg

**Answer:**  
>Michelson and Morley

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17) An atom has 7 electrons in its M- shell and contains 18 neutrons in its nucleus. What is its mass number ?

- >25
- >27
- >35
- >43

**Answer:**  
>35

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