

21. Increase in atomic number is observed during
- | | |
|--------------------------|-------------------------|
| <u>A.</u> Alpha emission | <u>B.</u> Beta emission |
| <u>C.</u> Both a & b | <u>D.</u> Radioactivity |

Answer: Option B

-
22. Positive rays give flash on
- | | |
|-----------------------------------|----------------------|
| <u>A.</u> AgNO ₃ plate | <u>B.</u> AgCl plate |
| <u>C.</u> ZnO | <u>D.</u> ZnS |

Answer: Option D

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23. Free neutron changes into proton with the emission of
- | | |
|----------------------|--------------------|
| <u>A.</u> Neutrino | <u>B.</u> Electron |
| <u>C.</u> Both a & b | <u>D.</u> Meson |

Answer: Option c

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24. The value of e/m ratio of electron is
- | | |
|---|--|
| <u>A.</u> 6.02×10^{23} C/kg | <u>B.</u> 1.7588×10^{20} C/kg |
| <u>C.</u> 9.1095×10^{-31} C/kg | <u>D.</u> 1.7588×10^{11} C/kg |

Answer: Option D

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25. Charge of electron was measured by
- | | |
|-----------------------|--------------------|
| <u>A.</u> J.J Thomson | <u>B.</u> Millikan |
| <u>C.</u> Rutherford | <u>D.</u> Perrin |

Answer: Option B

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26. Rutherford bombarded _____ particles in discovery of nucleus

A. Gamma-rays

B. Alpha-rays

C. Beta-rays

D. X-rays

Answer: Option B

27. Planks theory says energy is emitted

A. In continuous manner

B. Discontinuous manner

C. Simultaneously

D. In the form of heat

Answer: Option B

28. Angular momentum of an electron

A. $n^2h/2\pi$

B. $nk^2/2\pi$

C. $nh/4\pi$

D. $nh/2\pi$

Answer: Option D

29. 2nd orbit is _____ away from nucleus of H-atom as compared to 1st orbit is

A. 2-times

B. 3-times

C. 4-times

D. 6 times

Answer: Option C

30. The maximum number of orbitals present in a subshell that is represented by Azimuthal quantum number = 3 will be

A. 1

B. 3

C. 5

D. 7

Answer: Option D