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1. QUESTION: Who record the first evidence of existence of an Atom

A. Joseph John Thomson

B. John Dalton

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C. Eugene Goldstein

D. Rutherford

CORRECT ANSWER IS: John Dalton

2. QUESTION: An Atom Consists of

A. Nucleus and Proton

B. Nucleus, Proton and Neutron

C. Nucleus, Proton, Neutron and Electron

D. Nucleus, Proton and electron

CORRECT ANSWER IS: Nucleus, Proton, Neutron and Electron

3. QUESTION: Nucleus have

A. Electrons and Protons

B. Neutrons and Protons

C. Neutrons

D. Electrons

CORRECT ANSWER IS: Neutrons and Protons

4. QUESTION: Atom is _____ times bigger than nucleus.

A. 10000

B. 20000

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C. 30000

D. 40000

CORRECT ANSWER IS: 10000

5. QUESTION: When electrons are removed, An ion gains _____

A. Negative charge

B. Positive Charge

C. Become neutral

D. None of the Above

CORRECT ANSWER IS: Positive Charge

6. QUESTION: When electrons are added, An ion gains _____

A. Negative charge

B. Positive Charge

C. Become neutral

D. None of the Above

CORRECT ANSWER IS: Negative charge

7. QUESTION: In an atom numbers of protons are equal to

A. Numbers of Neutrons

B. Numbers of Electrons

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C. Both a and b

D. Neither a nor b

CORRECT ANSWER IS: Numbers of Electrons

8. QUESTION: Most atoms are neutral because

A. Number of electrons are equals to number of neutrons

B. Number of electrons are equals to number of Protons

C. Number of protons are equals to number of neutrons

D. None of the Above

CORRECT ANSWER IS: Number of electrons are equals to number of neutrons

9. QUESTION: Which scientist explored that nucleus is very small and have positive charge.

A. John Dalton

B. Eugene Goldstien

C. Sir Earnest Rutherford

D. James Chadwick

CORRECT ANSWER IS: Sir Earnest Rutherford

10. QUESTION: Electrons have always

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- A. Positive Charge
- B. Negative Charge
- C. No charge
- D. sometimes positive and sometimes negative

CORRECT ANSWER IS: Negative Charge

11. QUESTION: Protons have always

- A. Positive Charge
- B. Negative Charge
- C. No charge
- D. sometimes positive and sometimes negative

CORRECT ANSWER IS: Positive Charge

12. QUESTION: Neutrons always have

- A. Positive Charge
- B. Negative Charge
- C. No charge
- D. sometimes positive and sometimes negative

CORRECT ANSWER IS: No Charge

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13. QUESTION: Ions with positive charge and fewer electrons are called.

- A. Cations
- B. Anions
- C. only Ions
- D. None of the Above

CORRECT ANSWER IS: Cations

14. QUESTION: Ions with negative charge and extra electrons are called.

- A. Cations
- B. Anions
- C. only Ions
- D. None of the Above

CORRECT ANSWER IS: Anions

15. QUESTION: The famous Alpha Scattering experiment is conducted by

- A. Joseph John Thomson
- B. John Dalton
- C. Eugene Goldstein

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D. Sir Earnest Rutherford

CORRECT ANSWER IS: Sir Earnest Rutherford

16. QUESTION: Electron was discovered by

A. Joseph John Thomson

B. John Dalton

C. Eugene Goldstein

D. Sir Earnest Rutherford

CORRECT ANSWER IS: Joseph John Thomson

17. QUESTION: Proton was discovered by

A. Joseph John Thomson

B. John Dalton

C. Eugene Goldstein

D. Sir Earnest Rutherford

CORRECT ANSWER IS: Eugene Goldstein

18. QUESTION: Neutron was discovered by

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A. Joseph John Thomson

B. John Dalton

C. James Chadwick

D. Sir Earnest Rutherford

CORRECT ANSWER IS: James Chadwick

19. QUESTION: What is cathode?

A. Cathode is negatively charged electrode.

B. Cathode is positively charged electrode.

C. Cathode is neutral electrode.

D. None of the Above

CORRECT ANSWER IS: Cathode is negatively charged electrode.

20. QUESTION: What are anode?

A. anode is negatively charged electrode.

B. anode is positively charged electrode.

C. anode is neutral electrode.

D. None of the Above

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CORRECT ANSWER IS: anode is positively charged electrode.

21. QUESTION: What are cathode rays?

- A. A beam of electrons emitted from the anode of a high-vacuum tube.
- B. A beam of electrons emitted from the cathode of a low-vacuum tube.
- C. A beam of electrons emitted from the cathode of a high-vacuum tube.
- D. a beam of electrons emitted from the anode of a low-vacuum tube.

CORRECT ANSWER IS: A beam of electrons emitted from the cathode of a high-vacuum tube.

22. QUESTION: What color of fluorescence is produced when cathode rays strike the walls of glass tube?

- A. Green
- B. Black
- C. Yellow
- D. Red

CORRECT ANSWER IS: Green

23. QUESTION: Cathode rays were produced in discharged tube at

- A. Low voltage

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- B. High Voltage
- C. Ordinary Voltage
- D. No voltage

CORRECT ANSWER IS: High Voltage

24. QUESTION: In which direction, cathode rays travel in discharge tube?

- A. Perpendicular to surface of cathode
- B. Horizontal to surface of cathode
- C. Diagonal to surface of cathode
- D. Spread on surface of cathode

CORRECT ANSWER IS: Perpendicular to surface of cathode

25. QUESTION: In cathode rays, e/m values

- A. Depend upon nature of gas
- B. Do not depend upon nature of gas
- C. Depends on amount of air
- D. None of the Above

CORRECT ANSWER IS: Do not depend upon nature of gas

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26. QUESTION: When Alumina placed in path of cathode rays, it glows

- A. Black
- B. Green
- C. Blue
- D. Red

CORRECT ANSWER IS: Black

27. QUESTION: When tin stone placed in cathode rays, tin glows

- A. Blue
- B. Black
- C. Green
- D. Yellow

CORRECT ANSWER IS: Yellow

28. QUESTION: Cathode rays have _____ effect

- A. Reducing
- B. Oxidizing
- C. Catalysing
- D. Hydrolysing

CORRECT ANSWER IS: Reducing

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29. QUESTION: Free neutron decays into

- A. Electron and Neutrino
- B. Proton and Neutrino
- C. Electron, Proton and Neutrino
- D. None of the Above

CORRECT ANSWER IS: Electron, Proton and Neutrino

30. QUESTION: Positive rays produce flashes on _____.

- A. Platinum plate
- B. Gold Plate
- C. Zinc sulphide plate
- D. Silver plate

CORRECT ANSWER IS: Zinc sulphide plate

31. QUESTION: Which scientist named anode rays as proton?

- A. Thomos
- B. Stonely
- C. J.Perrin
- D. Rutherford

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CORRECT ANSWER IS: Rutherford

32. QUESTION: Which scientist named cathode rays as electrons _____.

- A. J.J. Thomson
- B. Stonely
- C. J Perrin
- D. None of the above

CORRECT ANSWER IS: Stonely

33. QUESTION: e/m for positive ray is _____ e/m for negative ray.

- A. larger than
- B. Smaller than
- C. equal to
- D. None of the above

CORRECT ANSWER IS: Smaller than

34. QUESTION: The mass of electron is _____ times less than mass of proton.

- A. 1836
- B. 1837
- C. 1838
- D. 1839

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CORRECT ANSWER IS: 1836

35. QUESTION: Which type of cathode is used to focus cathode rays on a platinum foil?

- A. Concave cathode
- B. Convex Cathode
- C. Straight Cathode
- D. None of the above

CORRECT ANSWER IS: Concave cathode

36. QUESTION: Free neutron decays into _____.

- A. Proton, electron, deuterium
- B. Proton, electron, protrium
- C. Proton, electron, neutrino
- D. Proton, electron, deuteron

CORRECT ANSWER IS: Proton, electron, neutrino

37. QUESTION: The speed of slow neutron is _____ energy.

- A. Below 1 ev

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B. Above 1 ev

C. Below 1 Mev

D. Above 1 Mev

CORRECT ANSWER IS: Below 1 ev

38. QUESTION: The speed of fast neutrons is _____ energy.

A. 1.1 Mev

B. 1.2 Mev

C. 1.3 Mev

D. 1.4 Mev

CORRECT ANSWER IS: 1.2 Mev

39. QUESTION: Which neutrons are more effective for fission process.

A. Slow neutrons

B. Fast neutrons

C. Both a and b

D. None of the above

CORRECT ANSWER IS: Slow neutrons

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40. QUESTION: Which scientist discovered the charge on electron?

- A. Millikan
- B. Stonely
- C. Rutherford
- D. None of the above

CORRECT ANSWER IS: Millikan

41. QUESTION: _____ radiations emit, when slow moving neutrons hit the copper metal?

- A. Alpha
- B. Gamma
- C. Delta
- D. Beta

CORRECT ANSWER IS: Gamma

42. QUESTION: Brackett series is found in _____.

- A. Ultraviolet region

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B. Infrared region

C. Visible region

D. None of the above

CORRECT ANSWER IS: Infrared region

43. QUESTION: Atomic orbital needs at least _____ of volume of space to find an electron.

A. 100%

B. 95%

C. 90%

D. 85%

CORRECT ANSWER IS: 95%

44. QUESTION: Quantum number which represent shape of orbital of electron is called _____.

A. Azimuthal quantum number

B. Magnetic quantum number

C. Principal quantum number

D. All of them

CORRECT ANSWER IS: Azimuthal quantum number

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45. QUESTION: P-fund series is found in _____

- A. Ultraviolet region
- B. Infrared region
- C. Visible region
- D. All of them

CORRECT ANSWER IS: Infrared region

46. QUESTION: Lyman series is found in _____.

- A. Infrared region
- B. Visible region
- C. Ultraviolet region
- D. None of the above

CORRECT ANSWER IS: Ultraviolet region

47. QUESTION: The wave numbers of spectral lines _____ from Pfound series to lyman

- A. Remain constant
- B. Increases
- C. Decreases
- D. None of the above

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CORRECT ANSWER IS: Decreases

48. QUESTION: Who set up the wave equation for hydrogen atom?

- A. Dirac
- B. Schrodiner
- C. Heisenberg
- D. None of the above

CORRECT ANSWER IS: Schrodiner

49. QUESTION: Mathematical formula for s-sub shell is _____.

- A. $m = 0, l = 0$
- B. $m = 0, +1, +2, l = 2$
- C. $m = 0, +1, +2, l = 1$
- D. $m = 0, l = 2$

CORRECT ANSWER IS: $m = 0, l = 0$

50. QUESTION: What is the shape of s-sub shell?

- A. Square
- B. Round
- C. Spherical
- D. Complicated

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CORRECT ANSWER IS: Spherical

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