

23.01.20 EVERWIN VIDHYASHRAM

STD: IX(Girls) TT – Chemistry Marks:25

I. Assertion and Reasoning: 1x1=1

1. [A] Most of the  $\alpha$ -rays passed through gold foil undeviated and some  $\alpha$ -rays deviated through larger angles.

[R]  $\alpha$ -particle scattering experiment was possible by using gold foil only and not by foil of any other metal because gold metal is highly malleable.

- a) [A] is correct but [R] is wrong      b) [A] is wrong but [R] is correct  
c) Both [A] and [R] are correct      d) Both [A] and [R] are incorrect

II. Fill in the Blanks: 3x1=3

1. The fundamental particles of an atom are ----- and -----  
2. Rutherford's  $\alpha$ -particle scattering experiment was responsible for the discovery of -----  
3. The metal which was bombarded with  $\alpha$ -rays in Rutherford's model of the atom is -----

III. Multiple Choice Questions: 3x1=3

1. The subatomic particle with no charge is -----  
a) Proton      b) Electron      c) Neutron      d) None of the above  
2. The positive and negative charges are ----- in number and magnitude  
a) lesser than each other      b) greater than each other  
c) Equal      d) None of the above  
3. ----- model of an atom is similar to that of a water melon  
a) Ernest Rutherford      b) Neils Bohr  
c) J.J. Thomson      d) E. Goldstein

IV. Very Short Answer: 4x1=4

1. What is the charge on canal rays?  
2. What is a proton? Who discovered it?  
3. If the number of orbits is 3, the letter with which the orbit is represented is?  
4. Why are shell in which electrons revolve called Energy levels?

V. Answer in Brief: 3x3=9

1. What were the conclusion's of Rutherford's  $\alpha$ -particle scattering experiment?  
2. What are the drawbacks of Rutherford's model of the atom?  
3. Explain Bohr's model of an atom.

VI. Answer in Brief: 5x1=5

1. a) Explain J.J. Thomson's model of an atom.  
b) What are canal rays?  
c) What are the observations of Rutherford's model of an atom?

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EVERWIN VIDHYASHRAM

STD: IX(Boys)

TT – English

Marks:25

I. Answer the following:

5x2=10

1. What are author's observations about the streets of Kathmandu?
2. Name the two temples the author visited in Kathmandu.
3. What is the belief at PashuPathinath about the end of kaliyug?
4. What does author imply by 'Febrile Confusion' in the pashupathinath Temple?
5. Name five kinds of flutes

II. Explain with Reference to the context

5x1=5

Small Shops Stand on its outer edge: many of these are owned by Tibetan immigrants felt bags, Tibetan Prints and Silver jewellery can be bought here. There are no crowds: this is a haven of quietness in the busy streets around.

1. Where does the shops stand?
2. Explain: " The haven of quietness..."
3. Who does the shops belong to ?
4. Name the things sold in the shops.
5. Name the author of this travelogue.

III. Error Correction:

5x1=5

I went to the pool then no one was there. The place being quiet  
A water was still, and the tilled bottom was so white and clean  
as a bathtub. I was timid for going in alone

- a) -----
- b) -----
- c) -----
- d) -----
- e) -----

IV. Fill in the blanks:

5x1=5

Kiran could get a) ----- well with most of the students in the class b) ----- the girls felt very comfortable talking c) ----- him. Everybody d) ----- found of him e) ----- he was a very down to earth person.

- a) i) Along    ii) On    iii) Away    iv) Apart
- b) i) And    ii) Even    iii) All    iv) But
- c) i) With    ii) At    iii) About    iv) To
- d) i) Was    ii) Is    iii) Of    iv) As
- e) i) Though    ii) But    iii) Yet    iv) Although