

Write short answers to any FIVE (5) questions 10

1) Define nuclear chemistry. |

i) Differentiate between physical properties and chemical properties.

| Qs

ii) Define opine

iii) A compound is aera.

i) Define atomic radius and give example.

vii) Why ionization energy increases from left to right in a period? |

(viii) Write down the name of elements found in second period. |

Write short answers to any FIVE (5) questions, 10

(i) Why do atoms react? So

(ii) Why does ice float on water?

(iii) Ionic compounds are solids. Justify.

(iv) In which form sulphur exists at 100°C?

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v) What is diffusion in gases? Give an example.

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vi) . Why do we stir paints thoroughly before using?

What do you mean by % Volume/ Volume?

vii) How will you test whether given solution is a colloidal

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solution or not?

Write short answers to any FIVE (5) questions 10

What are redox reactions?

or

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What is meant by a reducing agent?

11) Define oxidation in terms of

iv) Calculate the oxidation state of 'N' in ABNO , and

(Vv) Lomi |

(vi) Give occurrence of alkali metals and alkaline earth ?

metals. |

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(vi) Write any two chemical properties of non-metals.

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(viii) What is the trend of electropositive character in ,

groups and elements? ; Also note

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Write any TWO questions

| (a) Write five properties of cathode rays. (4) |

(b) Write four differences between molecular and ionic :

(5)

Write the properties of covalent compounds. (4)

(b) What is allotropy? What are its reasons? Explain -

transition temperature also. (5)

i (a) Discuss electrolysis of water. (4)

(b) Give the four characteristics of colloid. (8)