

SARDAR KAURAY KHAN PUBLIC HIGHER SECONDARY SCHOOL MUZAFFAR GARH

Name..... Class 9th.....

Date; -

Chemistry: - 1st Half

Q 1. MCQs Select the correct answers Time: 15 min... 12

- Which one is the best example for a homogeneous mixture? (a) soil (b) gasoline (c) saw dust (d)gun powder
- How many number of moles are equivalent to 8 grams of CO₂? (a) 0.15 (b)0.18 (c)0.21 (d)0.24
- In which branch of chemistry metabolic processes are studied?
(a) biochemistry (b)nuclear chemistry (c)organic chemistry (d)analytical chemistry
- The effects of α-particles can be observed using a fluorescent material like (a)ZnS (b)PbS (c)Zr S (d)PdS
- The p sub shell has how many orbitals? (a) one (b)two (c)three (d)four
- Deuterium is present in (a) light water (b)heavy water (c)soft water (d) hard water
- The elements present in 18th group of the modern periodic table are all (a) metals (b) non – metals (c) metalloids (d) gases
- 4th and 5th periods of the long form of periodic table are:
(a) short periods (b) normal periods (c) long periods (d) very long periods
- Along the period which of the property of elements remains constant?
(a) atomic radius (b) electro negativity (c) shielding effect (d) electron affinity
- How many covalent bonds does ethene molecule have?(a)three (b)four (c)five (d)six
- Which one is the electron deficient molecule? (a)NF₃ (b)BF₄¹⁻ (c) BF₃ (d)N₂
- A bond formed between two non – metals is expected to be (a)electrovalent (b) covalent (c)coordinate covalent(d) metallic

Subjective:

Time: 1hrs:45 min

Total Marks = 48

SECTION – I

Q 2. Answer briefly any five parts

- i. Name the elements placed in the 2nd period.
- iii. How free radicals can be generated?
- v. What are the groups and periods in the periodic table?
- vii. Give difference between atom and ion

- ii. Differentiate between lone pair and bond pair
- iv. For what purpose U – 235 is used?
- vi. Define Avogadro's number
- viii. State modern periodic law

Q 3. Answer briefly any five parts

- i. Ionic compounds are solids. Justify it.
- iii. A patient has goiter. How it will be detected?
- v. Give the scope of biochemistry.
- vii. Give relations between mole and mass

- ii. Define atomic radius. Give its units
- iv. Which has more atoms 10g of Al or 10g of Fe?
- vi. Why does ice float on water?
- viii. What is meant by carbon dating?

Q 4. Answer briefly any five parts

- i. Why HCl has dipole – dipole forces?
- iii. What is a substance? Give its types
- v. What is quantum?
- vii. Write electronic configuration of Fluoride ion.

- ii. Why noble gases are not reactive?
- iv. Write differences between ions and free radicals?
- vi. What is octet rule?
- viii. Draw covalent bonds in nitrogen molecule.

SECTION – II

Note: Attempt any two questions

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| Q 5.(a) Differentiate between compounds and mixtures | 5 |
| (b) What is an ionic bond? Describe it with example | 4 |
| Q 6.(a) Discuss Bohr's atomic model | 5 |
| (b) Describe the polar and non-polar nature of covalent bond | 4 |
| Q 7.(a) What is chemistry? Discuss its any four branches | 5 |
| (b) What is an isotope? Describe the isotopes of hydrogen with diagrams | 4 |

9x2 =18