

TEST-8

SUBJECT: PHYSICAL SCIENCE

CLASS: **X**

NAME OF THE STUDENT: _____

Academic Year-(2020-2021)

CHAPTER-8: CHEMICAL BONDROLL NO: _____ MAX.MARKS: **20****I. Answer the following questions****2x4=8**

1. Explain how formation of sodium chloride on the basis of the concept of electron transfer from one atom to another atom.
2. Explain the formation of BeCl_2 molecule using hybridization

II. Answer the following questions**3x2=6**

3. Explain the formation of N_2 molecule
4. Define hybridization
5. Write electronic configurations of a) Na^+ b) Cl^-

III. Answer the following questions**4x1=4**

6. Define covalent bond
7. What are valence electrons?
8. Draw electron dot structure for Ne
9. Define octet rule

IV. Answer the following questions**4x1/2=2**

10. Match the suitable answers of section-B with section-A

Section-A

Section-B

X) N_2 P) 120° Y) BF_3 Q) 180°

R) 3 bonds

11. What is shape of BF_3 molecule?
12. What type of hybridization is present in BF_3 molecule?
13. Bond angle of BeCl_2 is ____
A) 120° B) $109^\circ 28'$ C) 180° D) $104^\circ 31'$