**MSK EDUCATIONAL ACADEMY ENGLISH MEDIUM SCHOOL KAVITAM**

**UNIT-II**

**9TH CLASS PHYSICAL SCIENCE**

**Time: 1 hour Max.Marks: 25**

**NAME: ……………………………………………………………………………………………ROLL NO:…………………**

**I Answer any three of the following questions 3x2=6m**

1. **Derive V=U+at?**
2. **Define the terms renewable and non-renewable sources of energy?**
3. **Define Kinetic Energy and Potential Energy?**
4. **Define Oxidation and reduction according to modern concept?**

**II Answer any three of the following questions 3x1=3m**

1. **Define work?**
2. **What is meant by horse power?**
3. **What is an octet?**
4. **What are the forces present in ionic bond?**

**III Answer any Two of the following questions 2x4=8m**

1. **Derive S= ut + ½ at?**
2. **Write ten examples of objects possessing kinetic Energy?**
3. **Explain how the following molecules are formed. Indicate the type of bond formed in them. Write the equation with electron dot model?**
4. **Sodium Chloride b) Hydrogen fluoride**

**IV Choose the correct answers 6x ½ =3m**

1. **Negative acceleration is called ( )**
2. **Momentum b) Inertia c) Retardation d) Resultant**
3. **Dis placement ( )**
4. **Average velocity /time b)Average velocity X time**
5. **Average velocity X acceleration d) Time/Average velocity**
6. **The unit of work in C.G.S. system ( )**
7. **Erg b)Dyne c) Joule d) Newton**
8. **One horse power = ( )**
9. $10^{10}$ **ergs b) 746 Watts c) 550 Watts d)** $10^{5}$ **ergs**
10. **Triple bonds are present in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_molecules ( )**
11. **Oxygen b) Chlorine c) Hydrogen d) Nitrogen**
12. **Ionic substances are soluble in ( )**
13. **Benzene b) Kerosene c) Ether d) Water**

**V Fill in the blanks 5x ½ =2 ½ m**

1. **Covalent compounds are soluble in…………………………………………………………………solvents**
2. **Magnesium Chloride is …………………………………………………………………………………..compound**
3. **Coal. Petroleum and Natural gas are………………………………………………………………fuels**
4. **Coke is made from…………………………………………………………………………………….**
5. **The motion of a rocking horse is an example of ……………………………………………………..**

**VI Match the following 5x ½ =2 ½ m**

 **Group A Group B**

1. **Covalent bond ( ) A) 107°**
2. **ionic bond ( ) B) Oxygen molecule**
3. **Polar molecule ( ) C) 109°**
4. **Bond angle in Ammonia molecule ( ) D) MgO molecule**
5. **Bond angle in water molecule ( ) E) 105°**

**F) Ne atom**

**G) HCI molecule**

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