

**Kendriya Vidyalaya A F S Manauri Allahabad**

**F A 3 (2016-2017)**

**Class. IX**

**Sub: Science**

**Time: 1hour 30 minutes**

**M.M40**

Note: All the questions are compulsory.

Q.1 The SI unit of Density is

1x5=5

a) kg/m b)kg/ml c)kg/m<sup>3</sup> d)kg

Q.2 .Which of the following is not the unit of energy

a) Joule b) Newton-meter c) kilowatt d)kilowatt hour

Q.3 The chemical symbol for sodium is

a) SO b) Sd c) NA d) Na

Q.4 The molar mass of H<sub>2</sub>O is

a) 16g b) 18g c) 22g d)15g

Q.5 Molecular mass of Ozone is

a) 16u b) 32u c) 48g d) 64u

Q.6. Define the atomic mass unit .

2

Q.7. Write down the formula of

2

a) Aluminium oxide b) Calcium hydroxide

2

Q.8 Calculate the number of mole in 52g of He.

2

Q.9 Define thrust .Write its unit ?

2

Q.10 What is the difference between kinetic energy and kinetic potential ?  
2

Q.11 A battery lights a bulb. Describe the energy change involved in the process.  
3

Q.12 How much time does it take to perform 500 J of work at a rate of 10 W ?  
3

Q.13 Why is it difficult to hold a school bag having strap made of thin and strong string ?  
3

Q.14 What is the mass of :  
3

a) 1 mole of Nitrogen atoms

b) 4 mole of aluminium atoms

Q.15 Write the Molar Mass of  
3

a) NaCl b) C<sub>2</sub>H<sub>2</sub> c) CO

Q.16 Derive an expression for kinetic energy possessed by a body moving with speed v.  
5

Q.17 Write the postulates of Dalton's Atomic Theory.  
5