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STD : IX

DATE : 18-09-2017

MARKS : 40

SUB : SCIENCE

MODEL QUESTION PAPER CHP 1- 5 PAPER - 1

TIME - 2 HRS

Q.1 A i) Fill in the blanks :- **1**

(a) Deceleration is _____ acceleration.

ii) Statement True or False :- **1**

(a) The units of work & energy are the same.

iii) Find the odd man out :- **1**

(a) Ammeters, Voltmeter, Galvanometer, Thermometer

iv) Define : **1**

(a) Valency

v) Complete the analogy :- **1**

(a) Acids : Sour to tastes : Bases : _____

Q.1 B Rewrite the following statement by choosing the correct option:- :- **5**

1. Sodium bicarbonate is known as _____

(a) washing soda (b) baking Soda (c) soda Ash (d) rock salt

2. Joule is the unit of _____

(a) force (b) work (c) power (d) displacement

3. SI unit of speed is _____

(a) m/s (b) m (c) cm (d) cm/s

4. 1 A = _____ mA

(a) 10^{-3} (b) 10^3 (c) 10^6 (d) 10^{-6}

5. The atomic mass of calcium is _____

(a) 40 (b) 32 (c) 16 (d) 23

Q.2 Attempt any 5 out of 7 : **10**

1. Explain the chemical reaction with the help of balanced chemical equations :

(a) Sodium bicarbonate reacts with dilute hydrochloric acid.

2. Write the names of the following compounds & deduce their molecular mass :

(a) $MgCl_2$ (b) NaOH

3. **Difference between :** Resistance & Resistivity.

4. **Solve the following :-**

(a) 500 Kg water is stored in the overhead tank of a 10 m high building. Calculate the amount of potential energy stored in a water.

5. **Give reason:** The velocity of an object at rest is considered to be uniform.

6. State Newton's second law of motion.

7. **Give two example of the following:-** Kinetic energy.

Q.3 Attempt any 5 out of 7 :

15

1. What will happen in the following cases?

(a) If the mass of a moving body is doubled, how many times will the kinetic energy increases? [velocity is constant]

2. **Difference between :** Distance & Displacement [any 3 points]

3. Write the precautions to be taken while using Electricity.

4. Deduce the number of molecules of the following compound in the given quantities:
90 g of water.

5. Write a short note on indicator.

6. If an object has 0 momentum, does it have kinetic energy? Explain your answer

7. **Solve:** The resistance of a 1 m long nichrome wire is 6Ω . If we reduce the length of the wire to 70 cm. What will be its resistance.

Q.5 Attempt any 1 out of 2 :

5

1. Take five example from year surrounding & give explanation based on Newton's law of motion.

2. Explain Domestic electric connection.

*** BEST OF LUCK ***