

SUCCESS KEY TEST SERIES

Unit Test-3

Std: VIII (E.M)

Subject: General Science

Time: 2Hrs

Date :

Chapter No. 11 To 15

Max Marks: 40

- Q.1 (A) Attempt the following:** 5
- (1) **Fill in the blanks:** 1
' β ' is the-----coefficient of solid liquid and gas.
- (2) **Find the odd man out** 1
Methyl orange, Phenolphthalein, Methyl red, turmeric
- (3) **Complete the analogy:** 1
NaCl : Ionic bond :: Hydrogen molecule : -----
- (4) **Write True or False** 1
Respiratory system performs the function of transport of various substances like water, hormones, oxygen, soluble nutrients, and waste materials through different organs.
- (5) **Who am I:** 1
Protein present in the plasma which provides protection.
- (B) Choose the proper alternative and fill in the blanks:** 5
- (1) Gas expands on heating but if the gas is kept in a closed box, its volume cannot increase but its pressure----- .
(a) increases (b) decreases (c) Constant (d) all of these
- (2) William Harvey describes the
(a) mechanism of circulation in the blood .
(b) mechanism of diffusion of gaseous exchange in alveoli.
(c) mechanism of flow of blood in veins
(d) none of the above.
- (3) Substances having astringent/bitter taste and slippery to touch are called ----- .
(a) bases (b) acids (c) salts (d) All of these
- (4) If -----level is around 100 decibels, the sound can be harmful to us.
(a) light (b) sound (c) electricity (d) potential
- (5) New substances formed as a result of the reaction are called----- .
(a) reactants (b) product (c) both of these (d) none of these
- Q.2 Attempt the following:(Any Five)** 10
- (1) **Define the following:** 2
Natural acid
- (2) **Give reasons:** 2
Cleaning shahabad tile with dilute hydrochloric acid is a chemical change.
- (3) **Draw the following diagram:** 2
Respiratory system*
- (4) **Distinguish Between** 2
String instrument and pipe instrument
- (5) **Solve the following** 2
When a substance having mass 3 kg receives 600 cal of heat, its temperature increases by 10 °C. What is the specific heat of the substance?*
- (6) **Answer the following** 2
Which substances are produced by neutralization process ?*

Q.3 Answer the following in brief: (Any Five)

15

- (1) Explain by writing a word equation: Respiration is a chemical change.*
- (2) Two substances A and B have specific heats c and $2c$ respectively. If A and B are given Q and $4Q$ amounts of heat respectively, the change in their temperatures is the same. If the mass of A is m , what is the mass of B?*
- (3) Write a note on hypertension.
- (4) What are the types of Acid?
- (5) What is meant by neutralization reaction?
- (6) Explain the formation of covalent bond in H_2O molecule.
- (7) Explain the construction of a calorimeter. Draw the necessary figure.*

Q.4 Attempt the following: (Any One)

5

- (1) You are provided with three test tube, one has water, another two contains acid and alkali in it. Using methyl orange you able to identify them? How?
- (2) Explain about heart structure and its functions.

----- All the Best -----