**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

**Final Term/ Annual Examination 2016 – 2017**

**SCIENCE – Class-VII**

**100 marks 3 hours**

**INFORMATION FOR STUDENTS**

Marks are given against each question or part of question.

Write your name, roll number and date in the spaces provided below.

|  |  |
| --- | --- |
| Student Name:  | Roll No: |
| Center Name: | Date: |
|  | Day: |
| Invigilator Name: | Sign: |
| Marks Obtained:  | Remarks: |
| Examiner Name:Date: | Sign :Day: |

***OBJECTIVE-40marks***

**Q No1:Fill in the blanks. /10**

1. A \_\_\_\_\_\_\_\_\_\_\_\_\_ is the distance between two compressions.
2. The \_\_\_\_\_\_\_\_\_\_\_\_\_ of a sound means how high or low the sound is.
3. Too much noise causes \_\_\_\_\_\_\_\_\_\_\_\_\_.
4. The wavelength is denoted by the symbol \_\_\_\_\_\_\_\_\_\_\_\_\_.
5. The primary colours are \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_.
6. Wave Velocity = \_\_\_\_\_\_\_\_\_\_\_\_ x wave length
7. \_\_\_\_\_\_\_\_\_\_\_\_\_ is the breaking up of a single compound into two or more simpler product.
8. The number of protons in an atom is called \_\_\_\_\_\_\_\_\_\_\_\_\_.
9. Mass number \_\_\_\_\_\_\_\_\_\_\_\_\_+ number of neutrons.
10. \_\_\_\_\_\_\_\_\_\_\_\_\_ are chemicals that supply energy.

**Q No 2:Write the symbols and atomic numbers of the following atoms. /10**

|  |  |  |
| --- | --- | --- |
|  **Elements** |  **Symbol** |  **Atomic No** |
|  Hydrogen |  |  |
|  Magnesium |  |  |
|  Sodium |  |  |
|  Beryllium |  |  |
|  Calcium |  |  |

**Q No3:True or False. /5**

1. Luminous objects give out their own light.\_\_\_\_\_\_\_\_
2. The retina is human eye is actually a lens. \_\_\_\_\_\_\_
3. Current passing through a certain is being divided into half, the circuit is

 series circuit. \_\_\_\_\_\_\_\_

1. A voltage remains the same in series circuit. \_\_\_\_\_\_\_
2. Mechanical waves can only travel through a vacuum.\_\_\_\_\_\_\_

**Q No4:Choose the best answer. 5**

i.Amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_passing through the wire in unit time is

 known as current.

a. Voltage b. Resistance c. Charge d. Current

ii. Current is inversely proportional to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. Resistance b. Voltage c. Charge d. Friction

iii. Increasing the frequency of a sound increases its?

a. Pitch b. Loudness c. Quality d. Intensity

iv. How can the pitch of a vibrating string be made higher?

a. Tigten the string b.change to a thick string of a same kind

c. reduce its length

v. Increasing the amplitude of a sound wave increases its?

a. Pitch b. Loudness c. Quality d. Intensity

***SUBJECTIVE-60marks***

**Q No1.Answer any FIVE of the following questions. 5x5=25**

1. Why are houses painted white in hot countries?
2. Why are shiny foil blankets wrapped around marathon runners at the end of a race?
3. State factors on which sound depends?
4. How does a telescope work?
5. Investigate objects in home and surrounding that are designed and made to produce different sounds.
6. Why are burners placed beneath hot water tanks?
7. Write the five steps of a water treatment system.

**Q No6:Answer the following short questions. (any five) 5 x 3 = 15**

i) What is meant by pitch?

ii) What are sound waves?

iii) Name three metamorphic rocks.

iv) What is the difference between a primary & a secondary consumer?

v) Name three types of weathering.

vi) Why freezer compartment is put at top in a fridge?

vii) Name one example of each:

1. an igneous rock b) a sedimentary rock

c) a metamorphic rock

viii) What are decomposers?

ix) List the three main gases in air with the most plentiful .

x) Explain how a rainbow is formed?

**Q No3: Write the Empirical formulae of the following Molecular formulae. 4**

|  |  |
| --- | --- |
| **Molecular** |  **Empirical** |
| H2O |  |
| C6H12O6 |  |
| O3 |  |
| N2H4 |  |

**b):Write the chemical formulae of the following. 4**

i. Methane \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ii. Hydrogen per Oxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

iii. Carbon dioxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

iv. Sodium Chloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c):Complete the given chemical reaction. 2**

Mg2+ + N3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B)Make a pie chart with the gases that make up air in the correct proportion. 10**