**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

**2nd Mid Term Examination 2016 – 17**

**SCIENCE - Class VII**

**50 marks 2 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-20(marks)***

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

 i) Wave length is denoted by the symbol\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 ii) Primary colors are \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_.

 iii) Wave speed = \_\_\_\_\_\_\_\_\_\_ x wavelength.

 iv) The \_\_\_\_\_\_\_\_\_\_\_\_\_ container would be the coolest because it is the poorest

 at \_\_\_\_\_\_\_\_\_\_\_\_ heat radiation.

 v) When light enters in a material it bends, the process is called \_\_\_\_\_\_\_\_\_.

 vi) The\_\_\_\_\_\_\_\_\_\_ container would be the warmest after ten minutes because

 its surface absorbs heat \_\_\_\_\_\_\_\_\_ the best.

**Q No 2:Write the symbols and atomic numbers of the following atoms. 5**

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

**Q No 2: Choose the best answer. 5**

 i) How does heat energy reach the earth from the Sun?

 a) radiation b) conduction c) convection d) insulation

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

1. resistance b) voltage c) charge d) friction

 iii) Which is the best surface for absorbing heat radiation?

1. Shiny white b) dull white c)shiny black d) dull black

 iv) Increases the amplitude of a sound increases its?

1. pitch b) loudness c) quality d) intensity

 v) In which of the following are the particles closest together ?

 a) solid b) liquid c) gas d) fluid

**SUBJECTIVE-30(marks)**

**Q No 1: Answer any five of the following questions. 5x4=20**

1. Why does air rise and cold air sink?
2. Compare audible frequency range of humans and different animals.
3. Write some properties of sound.
4. Write any three effects and examples of the refraction. And also draw and label how light will disperse into different colors after passing through the prism.
5. Differentiate between frequency and pitch.
6. Draw and explain a parallel circuit.
7. What are the conductors and insulators? Explain with examples.

**Q No 2:Draw and label the water cycle. 10**