**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

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

**SCIENCE - Class VIII**

**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 No 1: Predict the products and balance the equations. 5**

i) BaCI2 + H2SO4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ii) Zn + CuSO4  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

iii) FeCO3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

iv) HBr(aq)+ LiOH(aq) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

v) H3PO4(aq) + Mg(OH)2(aq) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q No 2: Choose the correct option and write in the provided space. 10**

 i) Sulphuric acid, H2So4 is an example of a:

 a) strong acid b) strong base c) weak acid d) weak base

 ii) Neutral solutions have a PH of:

 a) 0 b) 7 c) 14

 iii) CH4 + O2 \_\_\_\_\_\_\_\_\_\_ + 2H2O a) CO2 b) CO3 c) gases

 iv) The SI unit of temperature is

 a) kelvin b) mole c) meter

 v) Pressure = $\frac{}{Area}$

 a) momentum b) force c) velocity

 vi) The standard form of mega is

 a) 106 b) 1010 c) 0.11

 vii) Speed of light is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. 299792458m/s b) 12222456m/s c) 0000001234m/s

 viii) \_\_\_\_\_\_\_\_\_\_\_ electricity is an electrical charge at rest.

1. produced b) static

 ix) \_\_\_\_\_\_\_\_ like diaphragms or stop in a camera.

 a) pupil b) Iris c) retina

 x) Object heated-size increases \_\_\_\_\_\_\_\_\_\_\_\_.

 a) contraction b) expansion

**Q No 3: Write True or false in front of following statements. 5**

1. Ammonia is an acid. \_\_\_\_\_\_\_\_
2. Basic solutions have a pH below 7. \_\_\_\_\_\_\_\_
3. Lemon contains citric acid. \_\_\_\_\_\_\_\_
4. The boiling point of water is. \_\_\_\_\_\_\_\_
5. DNA is the abbreviation for deoxyribonucleic acid. \_\_\_\_\_\_\_\_

***SUBJECTIVE-30(marks)***

**Q No 1: Answer any five of the following questions. 5 x 5= 25**

1. Define the force and give two examples of situations in which applied force causes a change in the shape of an object.
2. How do fluids exert pressure?
3. A force of 50N is applied on an area of 2 m2. Calculate the pressure being applied on the area.
4. Write and explain the methods of generating electricity.
5. Disc the shortcomings of nuclear generation of electricity.
6. What effect does a convex lens have on light rays?

**Q No 2: Draw a diagram to show the path of the light ray. 5**