**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

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

**SCIENCE - ClassVIII**

**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-40 marks***

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

1. Neil Armstrong took his step on the moon on \_\_\_\_\_\_\_\_\_\_\_\_.
2. The first living thing organism sent to the space was dog\_\_\_\_\_\_\_\_\_\_\_\_.
3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a simple machine if helps to make work easier.
4. A turning effect of a force is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. Mars \_\_\_\_\_\_\_\_\_\_\_\_\_ were launched on a mission to analyse rock and soil on Mars .
6. Pressure is \_\_\_\_\_\_\_\_\_\_\_\_when the surface area is small.
7. Speed = /time
8. There are two types of electricity called \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_.
9. Retardation means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Q No2: Predict the products and balance the equations. 10**

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

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

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

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

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

**Q No3: 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. A resistor can be used to control the flow of current in a circuit. \_\_\_\_\_\_\_

 **b) Choose the best answer. 5**

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

 a) momentum b) force c) velocity

 ii) Farmers add mineral element to their soils in the form of:

 a) Fertilizers (b) Artificial fertilizers (c) nitrogen

 iii) Acceleration = time take

 a) Change in velocity (b) Change is speed

 (c) Change in distance

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

 a) 299792458m/s b) 12222456m/s c) 0000001234m/s

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Basic quantities** |   **Symbols** | **SI Units** | **Symbols of SI units** |
| Length |  |  |  |
| mass |  |  |  |
| time |  |  |  |
| Temperature |  |  |  |
| Electric current |  |  |  |

 **Q No4: Write the Symbols and SI units of basic quantities. 5**

***SUBJECTIVE-60 marks***

**Q No1.Answer the following short questions. (any five) 5 x 4 = 20**

i) Explain the working principle of optical telescopes.

ii) What is lever?

iii) Name three fuels that come from oil.

iv) Give one advantage of using hydrogen as a fuel.

v) Write the word equation for.

 a) Photosynthesis (b) Respiration

vi) What is weight? How is it measured?

vii) How are the planets of a solar system kept in orbit?

viii) What are drugs?

**Q No2:Answer any three of the following questions. Each question carries equal marks. 10 x 3 = 30**

 1(a):What is pressure? Which end of a pencil gives the lowest pressure?

 (b):A lady wearing shoes with stiletto heels weighs 550N. The area of each stiletto heels is 1cm2. Calculate the pressure of each heel on the floor.

**II(a):**Describe one way to demonstrate conservation of mass in a chemical reaction that produces a gas.

**(b)**:How much magnesium oxide would be produced if the following masses of the magnesium were burned in oxygen?

 (i) 0.24g (ii) 1g (iii) 2.4g (iv) 24g

**III(a):**Define the following terms:

 i) Acceleration (ii) Speed

 **b):**A bullet from a gun travels at 600m/s.

 i) How far does the bullet travel in 2S?

 ii) How long would it take to travel 150m?

**IV(a):**What is satellite? Name four types of artificial satellites.

 **b):** Explain the difference between a polar orbit and a geo-stationary orbit.

**Q No3: Draw and label the Basic hydraulic System. 10**