**AFSS CENTRAL EVALUATION SYSTEM**

Central Assessment Team (CAT), HO Islamabad

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

**SCIENCE - Class II**

**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. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the closest planet to the sun.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_appears blue due to methane gas.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is a dwarf planet.
4. Plants produce oxygen through a process called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is a water world.
6. Things with lots of heat energy are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. Sun is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of light.
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and light, both are types of energy.
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is used to measure temperature.
10. Granite is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_rock.

**Q No2(a).Indicate whether the following statements are true or false. /5**

i) Sun is an artificial source of energy.

ii) Earth completes its one rotation around its own axis in 365 days.

iii) Heat & Light are the types of energy.

iv) Fire does not give us light.

v) Neptune is known for its strong winds.

**(b):Write the parts of the plants from where these food items come from.**

 **5**

Carrot Strawberry Sweet potato



Egg plant Corn



**Q No3(a):Sort the following into conductors and insulators. /5**

|  |
| --- |
| Copper,glass,aluminum,porcelain,platinum,plastic,rubber,gold,silver,wood |

|  |  |  |
| --- | --- | --- |
|  |  **Conductors** |  **Insulators** |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |

**(b):Write the following stones in the correct columns. /5**

|  |  |
| --- | --- |
| **Hard stones** |  **Soft stones** |
|  |  |
|  |  |
|  |  |
|  |  |

Chalk , Diamond, Coal, Marble, Graphite, Slate, sand stone, gran

**Q No4:Fill in the blanks by choosing the correct answer. /10**

1. South pole of magnet will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ south pole. Attract / repel
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the organ that helps using hearing.

Eye / ear

1. Magnets have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_magnetic field.

Visible / invisible

1. Sound waves \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_travel in space.

Cannot /can

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_force produce magnetic field.

Magnetic / frictional

1. Sun is a \_\_\_\_\_\_\_\_\_\_\_\_\_ .

 planet / star

1. \_\_\_\_\_\_\_\_\_\_\_\_\_between our shoes and floor stops us from slipping.

 resistance /friction

1. Area of magnetic force is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 Magnetic field /magnetic circle

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is terribly hot.

Venus / Mars

 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_is known for its strong wind.

 Neptune /Jupiter

 ***SUBJECTIVE-60marks***

**Q No1:Write functions of the following parts of a plant.**  **/10**

a) Roots:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) stem:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) flowers:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d) fruit:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*e)* leaves: *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Q No2(i):Which factors are required for seed germination ? /2**

**ii): What is force of friction? /2**

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**iii): What effect is produced by the friction between wheel and breaks of a car?** / 2

**iv): Do you think life without sun is possible on Earth? Give reasons. /4**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q 3(i):Write the names of the planets in the solar system? /2**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ii):What is rotation? /2**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**iii)What are the factors that make Earth a suitable place for life? /2**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**iv)Write the names of natural and artificial sources of light in the columns given below.** /4

|  |  |
| --- | --- |
|  **Natural sources of light** |  **Artifical sources of light** |
|  |  |
|  |  |

**Q No4:Write any five uses of plants?** /10

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q No5(a):Label the diagram. 5**

![seed germination epigeal and hypogeal[7]]()

**Germination of a Seed**

**b) Write the meanings of the following words. 5**

|  |  |
| --- | --- |
| **Words** | **Meanings** |
| Humidity |  |
| Rotation |  |
| Hibernation |  |
| Intensity |  |
| Orbit |  |

**Q 6:Write the uses of the following rocks. /10**

|  |  |  |
| --- | --- | --- |
|  |  **Rocks** |  **Uses** |
| 1- | coal |  |
| 2- | chalk |  |
| 3- | marble |  |
| 4- | slate |  |
| 5- | graphite |  |