**Name: …………………………………………………………… Adm no ……..…...................................**

**School: ……………………………………………………....…. Candidate’s sign ……………………....**

**Date: ……………………………………………………………**

**FORM I**

PAPER 231

**BIOLOGY**

**THIRD TRIAL 2017**

**TIME: 2 hours**

**FORM I**

PAPER 231

**BIOLOGY**

**INSTRUCTIONS TO CANDIDATES:**

*Write your* ***name*** *and* ***admission number*** *in the spaces provided.*

*Sign and write* ***date*** *of examination in the spaces provided above.*

*Answer* ***all*** *the questions in the spaces provided.*

1. Define the term Biology (1mk)
2. State two major branches of Biology (2mks)

3. Complete the table below (18 mks)

|  |  |  |
| --- | --- | --- |
| Branch | Definition | Specialist |
| Cytology |  |  |
|  | Study of fossils |  |
|  |  | Entomologists |
| Anatomy |  |  |
| Genetics |  |  |
| Ecology |  |  |
|  |  | Biochemist |
|  | Study of body function |  |
|  | Study of birds |  |

4. How does movement in plants differ from those of animals (2mks)

5. State and briefly explain five characteristics of living organisms (10 mks)

6. State five careers that require the knowledge of biology in Kenya today (5mks)

7. State three reasons why we should study Biology in Kenya schools (3mks)

8. Complete the table below (10 mks)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Diagram | Name | Function |
|  |  |  | Sucking small animals from rock surface or back |
|  |  |  | Attracting and trapping small animals |
|  |  | Sweep net |  |
|  |  |  | Wrapping small fish and other small water animals |
|  |  | Pair of forceps |  |

9. Name two instruments in the laboratory used for magnification (2mks)

10. What is magnification (2mks)

11. What is the formula for working out magnification? (1mk)

12. State three differences between plants and animals (8mks)

|  |  |
| --- | --- |
| Plants | Animals |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

13. Highlight any six importances of classification to biologists (4mks)

14.Draw the following features in plants

 (a) Simple leaf

 (b)Alternate leaf arrangement

 (c)Opposite leaf arrangement

 (d)A leaf with parallel venation

 (e)A tap root system

15. State five features used in animals classification (5mks)