***GATITU MIXED SCHOOL***

***FORM ONE MID-TERM TERM 2 2015 BIOLOGY EXAM***

1. Explain the characteristics of living organisms (10 marks)
2. An insect was found to be 5cm long and the magnification was x50. Calculate the length of magnification. (2 marks)
3. List three precautions undertaken when using a microscope. ( 3 marks)
4. What are the functions of various parts of a light microscope? (10 marks)

(i) Base

(ii) Diaphragm

(iii) Condenser

(iv) Mirror

(v) Coarse adjustment knob

5. Complete the following table. (5 marks)

|  |  |  |
| --- | --- | --- |
| Eye piece magnification | Objective lens magnification | Total magnification |
| 10 | 3.5 |  |
| 10 | 40 |  |
| 10 | 45 |  |
| 10 | 60 |  |
| 10 |  | X450 |

6. What are the functions of the following cell organelles?

(i) Ribosomes (1 mark)

(ii) Rough endoplasmic reticulum (1 mark)

(iii) Lysosomes (1 mark)

(iv) Golgi bodies (3 marks)

(v) Nucleus (3 marks)

(vi) Cell membrane (1 mark)

7. List and explain any five factors affecting the rate of diffusion (10 marks)