**NAME: ………………………………………….………………………… ADM NO ..............................................................**

**DATE……………………………………………………**

**CANDIDATE’S SIGN…………………………………**

**231/3**

**BIOLOGY**

**PAPER 3**

**TIME: 1 ¾ HOURS**

**FORM 4**

**INSTRUCTIONS TO CANDIDATES**

* *Write your* ***name*** *and* ***index******number*** *in the spaces provided above.*
* ***Sign*** *and write the* ***date*** *of examination in the spaces provided above.*
* *You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work.*
* *Answers must be written in the spaces provided in the question paper.*

|  |  |  |
| --- | --- | --- |
| **QUESTION** | **MAXIMUM SCORE** | **CANDIDATE’S SCORE** |
| **1** | **12** |  |
| **2** | **11** |  |
| **3** | **17** |  |
| **TOTAL** | **40** |  |

**FOR EXAMINER’S USE ONLY:-**

This paper consists of printed 4 pages.

Candidates should check the question paper to ascertain all the pages are printed as indicated and no questions are missing.

Q1. You are provided with the specimen labelled **K**.

(a)Using observable features only classify the specimen into:

(i)Kingdom (1mk)

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(ii)Phylum (1mk)

…………………………………………………………………….………………………..…………..

(iii)Class (1mk)

…………………………………………………………………….………………………..…………..

(b)Give **three** reasons for your answer in (a)(iii) above. (3mks)

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(c)State the functions of any **three** structures found on the body of specimen **K.** (6mks)

**Structure** **Function**

(i) ………………………………………… ………….………………………..…………..

(ii) ………………………………………… ………….………………………..…………..

(iii) ………………………………………… ………….………………………..…………..

Q2. You are provided with specimen **L**.

(a)Draw the anterior view of the specimen. (6mks)

(b)Give **three** functions of the bones which articulate with the bone on its lateral side. (3mks)

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(c)Name the bone which articulates with specimen **L** on its:

(i)Posterior end. (1mk)

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(ii)Anterior end. (1mk)

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Q3. You are provided with specimen M. Wash it clean. Cut the specimen transversely in the middle.

(a)(i)State the mode of dispersal of the specimen. (1mk)

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(ii)How is the specimen adapted to its mode of dispersal? (3mks)

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(b)What is the placentation of the specimen? (1mk)

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(c) Remove Four seeds from one of the halves of the specimen and wash them in clean water. Then drop

them into a beaker of hydrogen peroxide and observe for 5mins.Account for the results. (3mks)

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(d)Squeeze juice from one of the halves of the specimen into an empty beaker. Mix 5ml of the juice with

5ml of water and put the mixture into a clean test-tube. Using 2cm3portions of the mixture and the

apparatus and reagents provided carry out food tests and fill in the table below. (9mks)

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| **FOOD** | **PROCEDURE** | **OBSERVATION** | **CONCLUSION** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |