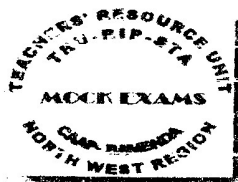


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REPUBLIC OF CAMEROON  
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MARCH 2024

|                                                                                                    |                             |                   |
|----------------------------------------------------------------------------------------------------|-----------------------------|-------------------|
| The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with NASTA | SUBJECT CODE NUMBER<br>0510 | PAPER NUMBER<br>2 |
| GENERAL CERTIFICATE OF EDUCATION<br>REGIONAL MOCK EXAMINATION                                      | SUBJECT TITLE<br>BIOLOGY    |                   |
| ORDINARY LEVEL                                                                                     |                             |                   |

Time Allowed: TWO and a half hours  
INSTRUCTIONS TO CANDIDATES

Mobile phones are NOT ALLOWED in the examination room.

Answer FIVE questions: ALL THREE from Section A and ANY TWO from SECTION B

- ❖ All questions carry equal marks and marks allocated to parts of questions are indicated in brackets.
- ❖ You are reminded of the necessity for good English and orderly presentation in your answers.

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SCAN TO VISIT THE WEBSITE

**SECTION A**  
**ANSWER ALL 3 QUESTIONS**

1. (a) List and give the functions of the parts that make up the plant cell.  
(b) How is the plant cell different from the animal cell?  
(c) What will happen if a red blood cell is dropped in distilled water?  
(9,6,5 marks)  
(Total = 20marks)

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2. (a) Describe an experiment to show that oxygen is needed for seed germination.  
(b) Explain three (3) other factors that affect the germination of seeds.  
(c) In a tabular form bring out the differences between hypogeal and epigeal germination.  
(9,6,5 marks)  
(Total = 20marks)

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3. (a) Define the following terms as used in environmental biology:  
(i) Pollution  
(ii) Deforestation  
(b) State the harmful effects of using inorganic fertilizers on farm lands near water bodies.  
(c) Describe the circulation of water in nature.  
(d) Differentiate between a food chain and a food web.  
(4,5,6,5 marks)  
(Total = 20marks)

**SECTION B**  
**ANSWER ANY 2 QUESTIONS**

4. (a) Explain what happens when the blood sugar of a healthy person rises.  
(b) State the functions of the following hormones  
(i) Progesterone  
(ii) Follicle stimulating hormone  
(c) (i) Explain the functions of the placenta  
(ii) Describe the birth process in humans.  
(4,4,6,6 marks)  
(Total = 20marks)

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5. (a) How is the left side of the heart different from the right side?  
(b) Using annotated flow arrows only, indicate the direction of blood flow in the heart.  
(c) How are xerophytes adapted to reduce water loss?  
(10,3,7 marks)  
(Total = 20marks)

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6. (a) Define the terms:  
(i) Genetics  
(ii) Chromosomes  
(iii) Heterozygote  
(b) Differentiate between haploid and diploid cells  
(c) How is sex determined in humans?  
(8,4,8 marks)  
(Total = 20marks)

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7. (a) Define aerobic respiration.  
(b) How is the lung adapted to carry out its function of gaseous exchange?  
(c) Copy and complete the table below

| Component of air | Inspired air | Expired air | Reason for difference               |
|------------------|--------------|-------------|-------------------------------------|
|                  | 21%          |             |                                     |
|                  |              | 4%          |                                     |
| Nitrogen         |              |             | Nitrogen is not used for metabolism |
| Water vapour     |              | Saturated   |                                     |

(2,8,10 marks)  
(Total = 20marks)

