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MARCH 2022

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with NASTA	SUBJECT CODE NUMBER 0565	PAPER NUMBER 2
GENERAL CERTIFICATE OF EDUCATION REGIONAL MOCK EXAMINATION	SUBJECT TITLE HUMAN BIOLOGY	
ORDINARY LEVEL		

Time Allowed: TWO and a half hours
INSTRUCTIONS TO CANDIDATES

Mobile phones are NOT ALLOWED in the examination room.

This paper has two sections A and B.

You are expected to answer three questions from section A and two from section B.

SECTION A

1 a) What do you understand by the following terms:

- i) Peristalsis
- ii) Digestion
- iii) Absorption
- iv) Egestion

b) Describe digestion in the duodenum.

c) What are those characteristics that make the ileum suitable for carrying out its function of absorption?

(8, 8, 4 marks)

2 a) State the functions of the human skeleton.

b) Draw a well-labelled diagram of a synovial joint.

c) Describe how movement is brought about at the elbow joint.

d) Differentiate between tendons and ligaments.

(6, 5, 7, 2 marks)

3 a) Draw and label the horizontal section through the human eye.

b) (i) What is Accommodation?

(ii) Describe the adjustments which occur in the eye when a far object is viewed.

c) Briefly explain what causes long-sightedness and how it can be corrected.

(8, 9, 3 marks)

4 a) (i) What is Immunity?

(ii) Describe the various types of immunity, giving examples of each.

b) State the various ways in which white blood cells defend the body.

(2, 15, 3 marks)

5 a) What do you understand by the following terms:

i) Miscarriage

ii) Caesarean Section

b) Describe the birth process in human females.

c) Describe the formation of

i) Identical twins

ii) Non-identical or fraternal twins

d) What are the negative effects of smoking cigarettes during pregnancy?

(4, 8, 4, 4 marks)

SECTION B

6 a) (i) What is First Aid?

(ii) State the importance of First Aid.

b) Write any three first aid measures to the following situations:

i) Electrocution

ii) Nose bleeding

iii) Snake bite

iv) Burns

c) Name any three articles found in a first aid box.

(5, 12, 3 marks)

7 a) Name any three sexually transmissible infections and give their causative agents and any one sign or symptom of each disease.

b) State any three harmful effects of venereal diseases to man and society.

c) Write a concise essay on the useful effects of fungi.

(9, 3, 8 marks)

8 a) What measures would you take when building a house to ensure that it is:

i) Rats-free?

ii) Insects-free?

b) How would you prevent dampness in the house?

c) State the advantages of natural lighting over artificial lighting.

(8, 5, 7 marks)

9 a) Explain the dangers of the following habits:

i) Defecating in Streams

ii) Self-medication

iii) Sexual promiscuity

iv) Bleaching of the skin

b) What are the properties of good clothing?

(15, 5 marks)