

NAME:

SIGNATURE:

S.6 BIOLOGY TOPICAL TEST THREE 2023

DURATION: 90 MINUTES

TOPIC: COORDINATION IN ANIMALS

INSTRUCTIONS: Attempt all questions.

SECTION A

1. (a) Giving suitable examples in each case, define the following terms.
 - (i) Endocrine gland (03 marks)
 - (ii) Hormone (03 marks)(b) Outline the characteristics of hormones (05 marks)
- (c). Describe the factors that cause release of hormones in blood. (09 marks)
2. (a) Describe the structure and functioning of the autonomic nervous system. (08 marks)
- (b) Give six structural and six functional differences between the two branches of the autonomic nervous system. (12 marks)
3. (a) What is a target cell? (02 marks)
- (b) Explain the different ways by which hormones exert their effects on target cells. (18 marks)
4. (a) What is meant by the following terms;
 - (i) Repolarization (04 marks)
 - (ii) Hyperpolarization (03 marks)(b) Describe how
 - (i) The resting potential of a neurone is maintained (07 marks)
 - (ii) An action potential is generated in a neurone (06 marks)

End!!!

“Hard work pays!!”