

S.6 BIOLOGY ESSAY TOPICAL TEST

GROWTH AND DEVELOPMENT

INSTRUCTIONS

*Attempt all questions in this paper.

*All questions carry each marks.

*The paper carries 50 marks.

1. (a) Distinguish between the terms growth and development. Show how the two are related. (04 marks)

(b) Explain the role of the hypocotyl of viable seeds in bringing about specific types of germination (06 marks)

2. (a) Define the following terms as used in description of growth:

(i) Actual growth (02 marks)

(ii) Absolute growth rate (02 marks)

(iii) Relative growth rate (02 marks)

(b) Describe the changes in growth of brain and thymus in a mammal during development (04 marks)

3. (a) How are meristematic cells in a plant body related to stem cells in an animal (02 marks)

(b) Describe the physiological changes in a meristem during primary growth in a maize plant (06 marks)

(c) Compare the pattern of growth of a maize leaf and a hydra (02 marks)

4. (a) What is diapause as applied to insects (02 marks)

(b) Which main physiological dilemma is faced during this stage in an insect (02 mark)

(c) Describe the changes that occurs in an insect's body during its growth and development from a larval form to an adult stage (06 marks)

5. (a) Define the term implantation as applied to embryonic development (02 marks)

(b) Briefly describe the changes that occur during embryonic development shortly after implantation (08 mark)

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