

S.5 BIOLOGY ASSESSMENT TEST

PAPER TWO

TIME: 120 MINUTES

INSTRUCTIONS: Attempt any four questions.

1. (a) What is meant by alternation of generation? *(02 marks)*
(b). Describe the life cycle of a named Bryophyte. *(09 marks)*
(c) Compare the differences in alternation of generation of the moss and ferns *(04 marks)*
(d) What is the significance of alternation of generation *(05 marks)*
2. (a) Describe the fluid-mosaic model of the cell membrane structure *(08 marks)*
(b) Give the advantages of each of the following organelles in a cell.
(i) Nucleus *(04 marks)*
(ii) Golgi apparatus *(04 marks)*
(iii) Endoplasmic Reticulum *(04 marks)*
3. (a) Explain how ferns are better adapted to terrestrial life than mosses. *(08 marks)*
(b) Give a structural comparison of angiosperms and gymnosperms. *(10 marks)*
(c) How are angiosperms better adapted to live on terrestrial habitats than gymnosperms *(02 marks)*
4. (a) With examples, Distinguish between the following terms
(i) Coelomate and Acoelomate *(03 marks)*
(ii) Symmetrical body and asymmetrical body *(03 marks)*
(iii) Bilateral and radial symmetrical bodies *(03 marks)*
(iv) Diploblastic and triploblastic condition *(03 marks)*
(v) Colonial level organization and tissue level of organization *(03 marks)*
(vi) Metameric Segmentation and Cephalization *(03 marks)*
(b). State two disadvantages of the coelom in an animal. *(02 marks)*
5. Compare
(a) Osmosis and active transport. *(08 marks)*
(b) Diffusion and Osmosis. *(08 marks)*
(c) Cytosis and Osmosis. *(04 marks)*
6. (a) Distinguish between fungi and plants *(10 marks)*
(b) Explain the economic importance of fungi in nature. *(10 marks)*

END!!!

“Success is through repeated practice”