

SS3

BIOLOGY

Research extensively on the theories of evolution, the modern view of evolution, convergent and divergent evolution. Microorganisms in action, variation, mitosis and meiosis. (note: pick the topics according to the groups assigned to you)

FURTHER MATHEMATICS

QUESTION:

A comparative study of conic sections: Parabola, Ellipse and Hyperbola. Discuss the following;

- i. Similarities and differences between parabola, ellipse, and hyperbola.
- ii. Tangents and normal: A comparative approach.
- iii. Real-world applications of each conic section.

Note: provide a worked example in each case above.

PHYSICS

1. a. State two differences between an intrinsic and extrinsic semiconductor
b. Draw a circuit diagram to illustrate full-wave smoothing rectification
2. a. What is fibre optics.

b. state four reasons why optical fibres are preferred to copper cables in the telecommunication.