ST. MARIE EUGENIE GIRLS SECONDARY SCHOOL

HOME PACKAGE FORM FIVE-MARCH 2020

BIOLOGY

1. Explain the concept of respiration

2. Describe types of respiratory substrates and their energy values

3. Explain the process of glycolysis

4. Explain the concept of kreb’s cycle

5. Describe the fate of pyruvic acid under aerobic and anaerobic respiration

6. Explain the events of the electron transport chain in the formation of ATP

7. Compute the total yield of ATP when glucose respired aerobically and anaerobically

8. Outline the respiratory pathway using lipids and protein.

9. Explain the meaning of BMR

10. Describe the factors which cause variation of the BMR of an individual

11. Explain the mechanism osmoregulation in marine elasmobranches

12. Describe mechanism of osmoregulation in mammals

13. Describe the counter current multiplier system in the loop of Henle

14. Describe hormonal control of osmoregulation

15. Outline various ways by which mammals are adapted to arid and semi-arid condition.