



# **ST. MARY'S *Catholic High School, Dubai***

## **PORTIONS FOR FIRST TERM EXAM - JAN, 2019**

### **YEAR 13**

#### **YR. 13 - BIOLOGY**

##### **Biology B (2)- Book 1 – Paper 1**

##### **Topic 1- Biological molecules**

- 1.1- Chemistry for life.
- 1.2- Biological molecules 1
- 1.3- Biological molecules 2
- 1.4- Enzymes.

##### **Topic 2- Cells and viruses**

- 2.1 Eukaryotic cells
- 2.2 Prokaryotic cells
- 2.3 Eukaryotic cell division- mitosis
- 2.4 Meiosis and sexual reproduction

##### **Topic 3- Classification**

- 3.1- Classification
- 3.2- Natural selection
- 3.3- Biodiversity

##### **Topic 4 – Exchange and transport**

- 4.1- Cell transport mechanisms
- 4.2- Gas exchange
- 4.3- Circulation
- 4.4- Transport in plants

## **Biology B (2) Book 2- Paper 2**

### **Topic 5- Energy for life processes**

5.1- Cellular Respiration

5.2- Photosynthesis

### **Topic 6- Microbiology and pathogens**

6.1- Bacteria and disease

6.2- Non bacterial pathogens

6.3- The response to infection

### **Topic 7 – Modern genetics**

7.1 Using gene sequencing

7.2 Factors affecting gene expression

7.3 Gene technology

### **Topic 8- Origins of genetic variation**

8.1- Genetic information

8.2- Gene pools