2020 July Mid-Term Break
GCE 'O' Level Pure Geography
For Sec 4

#	Date/Day & Time	Topics Covered
1	20 July (Mon) 1-4pm	**1) Geographical Investigation (GI)** • Coasts • Tourism **2) Physical Geography** • Coasts *(1.5 hours will be spent on each topic)*

The topics covered are:

Session	Topics
1)	**Geographical Investigation(GI)** • Coasts • Tourism At the end of the session, students will be familiar with the inquiry approach to GI: • formulate aims and hypotheses/guiding questions, • inquiry skills and techniques to collect data, • make analyses of data, • presentation techniques to display data, and • form conclusions.
2)	**Physical Geography** **Data Response, Structured & Level-Descriptor Questions on:** • Coasts At the end of the session, students will be able to: ***Key Question(KQ) 1*** • Explain the dynamic nature of coastal environments. • Explain how waves are generated and the factors influencing wave energy. • Explain wave refraction and the processes which occur when waves break. • Describe the different types of waves and their associated coastal environments.

	• Explain the different coastal processes. • Describe and explain the formation of cliffs, headlands, caves, arches, stacks and shore platforms. • Describe and explain the formation of bays, beaches, spits and tombolos. **Acquire skills in:** o Identify coastal landforms and features shown in topographical maps, photographs and sketches. o Draw and label a field sketch of a coastal area shown in a photograph. o Investigate how wave type influences beach profile and how longshore drift forms characteristic landforms. o Measure beach slope, beach materials, wave frequency and beach profile. o Analyse data and derive relationships between the following variables o Wave steepness and beach slope o Grain size and beach slope o Calculate wave steepness using wave height and wave length data. o Plot and label beach profile. ***Key Question (KQ) 2*** • Explain how the distinctive characteristics of coastal areas support a variety of human activities. • Describe the global distribution and characteristics of coral reef ecosystem. • Explain the value of coral reef ecosystem in the coastal environment. • Discuss the pressures that threaten the coral reef ecosystem. • Describe the global distribution and characteristics of mangrove ecosystem. • Explain the value of the mangrove ecosystem in the coastal environment. • Discuss the pressures that threaten the mangrove ecosystem. **Acquire skills in**: o Locating major coral reef and mangrove areas on the world map o Identifying the characteristics of mangroves shown in photographs and sketches that help them to adapt to the coastal environment o Identifying the different kinds of human activities in coastal areas shown in maps, photographs and sketches. ***Key Question (KQ) 3*** • Explain how coastal areas can be managed in a sustainable manner. • Evaluate the effectiveness of measures to protect the coast from erosion. **Acquire skills in**: • Identifying engineering measures adopted to mitigate coastal erosion in the field and shown in photographs and sketches. • Analyzing satellite images on changes in selected coastlines over two time periods.

Fees: Existing students follow existing rate