7. The Oceans:-

(a) Oceanography (definition, methods).

(b) The ocean basins: (their general condition, deeps, ocean-bottom topography, deposits and life on the ocean bottom).

(c) Sea-water (temperature, density, composition, colour and light).

(d) Waves (general characteristics and causes).

(e) Tides (their nature, cause, influence on different coats, spring and neap tides, tidal bores and races, general effects).

(f) Ocean currents (cause, effects, currents of the different oceans with special reference to N. Atlantic.)

8. Volcanoes, Earthquakes, Geysers, Hot Springs:-

(a) Typical volcanoes (Vesuvius—Mt. Pelée—Etna—Hawaii—Krakatoa— Sbasta—Mr. Royal).

(b) Types of eruptions.

(c) Materials erupted—lava floods.

(d) Origin of Volcanoes and life history.

(e) Special terms (calders—volcanic rock—dikes—bosses—sills—laccoliths batholiths.)

(f) Earthquakes (causes-characteristics-recording and locating- effects.)

(g) Hot springs and geysers.

9. Glaciers and Ice:-

(a) Action of ice in lakes and rivers.

(b) Snow-fields and the snow line—cause of glaciers.

(c) Types of glaciers (alpine—continental—ice-sheets).

(d) Work of glaciers (moraines, striae, till, eskers, erratics, roches moutonnées, hanging valleys, cirques.

(e) The glacial period and results in N. America.

(f) Ice-dammed lakes, Lakes Agassiz & Ojibway.

10. Shore Lines and Coral Formations:-

(a) Shorelines of strong relief.

(b) Shorelines of weak relief.

(c) History of both types.

(d) Bars and Beaches.

(e) Coral organisms and their work.

(f) Coral islands and theories of their structure.

11. Atmosphere:-

(a) Composition.

(b) Pressure (the barometer, isobars, barometric gradient.)

(c) Temperature (thermometer, isotherms, sources of heat, range of temperature, seasonal variations, influence of land and water).

(d) Humidity (source, absolute and relative, influence of temperature, dew and frost, fog, clouds, rains snow, hail, general distribution of rainfall).

(e) Light (its nature, the spectrum, the rainbow, colours of the sky, sunset colours, mirage, halos, twilight).

(f) Winds (their several causes, land and sea breezes, mountain and valley breezes).

(g) The wind systems of the earth(—westerlies, trades, monsoons, Fernel's Law, horse latitudes, doldrums).