

LADIES' EDUCATIONAL ASSOCIATION.

SESSION, 1879-80.

EXAMINATION IN PHYSICAL GEOGRAPHY.

THURSDAY, APRIL 8TH:—2 TO 5 P.M.

Examiner,GEORGE M. DAWSON, D.S.

1. What circumstances tend to produce a heavy rainfall in a given district, and to what is the existence of rainless and desert regions due.
2. What is meant by the dew point? Explain the formation of dew.
3. Explain the essential phenomena of the trade winds, and state by what means a knowledge of these and the upper return currents has been obtained.
4. What is meant by cyclonic and anticyclonic types of disturbance in the atmosphere, and how is each characterized?
5. In what main points are the physical features of the sea bed distinguished from those of the land surfaces, and for what reasons?
6. Sketch the course of the Gulf Stream, and illustrate its effect on climate.
7. Enumerate some of the more important oceanic currents, noting which are characterized as cold and which as warm.
8. How are relative changes of level between land and sea indicated by the facts observed in connection with coral reefs and islands?
9. Explain the manner in which the approximate position of the origin of an earthquake wave may be ascertained.
10. If a thermometer be placed successively at different depths in the earth, in temperate latitudes, what effects in temperature will be observed, and to what are these due?
11. Enumerate the principal agents at work in wasting away the present land surfaces, briefly indicating the mode of action of each.
12. Give an instance in which the present distribution of forms of life serves to indicate past physical changes.

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