



Joint admissions for engineering and architecture (DIA): Natural sciences test 2023

The natural sciences test comprises four tasks. Answer each task on a separate sheet of paper. You may illustrate your answers with drawings. Each task is graded on a scale of 0 to 6 points (pts). The maximum test score is 24.

Task 1

(6 pts)

Explain the following concepts:

- 1 a) Spring equinox (2 pts)
- 1 b) Coriolis force (2 pts)
- 1 c) Aurora borealis (2 pts)

Task 2

(6 pts)

- 2 a) What are De Geer moraines and how are they formed? (2 pts)
- 2 b) What is a kettle hole and how is it formed? (2 pts)
- 2 c) What are podzols? (2 pts)

Task 3

(6 pts)

Describe the phases of a moving low-pressure system and the weather phenomena related to it.

Task 4

(6 pts)

Name and analyse three factors that contribute to the formation of the landscape shown in the picture. Sketch a map of the picture; include in your map a north arrow.



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