

M.Sc. Examination, 2019
Semester-II
Environmental Science
Course : MEC-23
(Environmental Earth Science)

Time : 3 Hours

Full Marks : 40

Questions are of value as indicated in the margin

Answer question No. **1** and **any four** from the rest.

1. Write short notes on **any four** of the following: 2×4=8
 - a) Chemical weathering
 - b) Geomorphic agents
 - c) Beach processes
 - d) Placer deposit
 - e) Hydraulic gradient
 - f) Geophysical prospecting
 2. a) Elaborate the processes of erosion and transportation of sediments by wind.
b) Describe different types of dunes and their genesis. 4+4=8
 3. a) Explain the basic concept of 'Plate tectonics'. Describe different types of plate boundaries with examples.
b) How different types of moraines are formed in a glacial system? (1+3)+4=8
 4. a) Discuss the needs and methods for water conservation.
b) What are the structural controls adopted for riverine floods? Explain their drawbacks. 4+4=8
 5. a) Briefly explain the environmental impacts of mining activities.
b) Suggest the methods to minimize these impacts. 6+2=8
 6. a) Describe the various types of minerals and their use in human society.
b) What are the different types of mining methods? 4+4=8
 7. a) Write a note on 'Crustal abundance of elements'.
b) Discuss the linkages between the crustal materials of a region and human health. 3+5=8
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