

M. Sc. Semester-II Examination 2017

Environmental Science

Course: MEC-23

(Environmental Earth Science)

Time : Three 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) Sea floor spreading
 - (b) Moraines
 - (c) Placer deposit
 - (d) Sea bed mining
 - (e) Darcy's Law
 - (f) Volcanic products
 2. (a) What do you mean by 'geomorphic processes' and 'geomorphic agents'. Mention the geomorphic processes and agents that shape the earth's surface.
(b) Describe the major weathering processes that lead to disintegration of rocks. 2+2+4=8
 3. (a) Write the basic concept of 'Plate Tectonics Theory'. Describe the different types of plate boundaries with examples. (1+3)+4=8
(b) Describe any two depositional landforms developed by fluvial process.
 4. Discuss the various impact of mining activities on the environment. Suggest the methods to mitigate these problems. 4+4=8
 5. Describe different types of flood and their impact on society. Describe the structural methods adopted for riverine flood control and their drawbacks. 4+4=8
 6. (a) What are the basic components and goals of Integrated Water Resource Management (IWRM)?
(b) Write the salient features of draft National Water Policy, 2016. 4+4=8
 7. (a) Write a note on 'Crustal abundance of elements'.
(b) Discuss the linkage between earth materials and human health. 3+5=8
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