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Roll No.....

Total No. of Section : 03

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Code No. : 03/106(A)

Third Semester Examination, Dec. - 2017

M.Sc. GEOLOGY

Paper - I

ENVIRONMENTAL GEOLOGY

Time : 3 Hrs. **Max.Marks : 80**

Note : Section 'A', consists of 10 very short answer type questions, all of which are compulsory and should be attempted first. Section 'B' consists of four short answer type questions with internal options. Section 'C' consists of four long answer type questions with internal choice.

Section-'A'

Answer the following very short-answer-type questions in one or two sentences. **(2x10=20)**

Q-1. A movement started by women to stop the felling of trees by hugging them :_ _ _ p k_

Q-2. Tree planting programme : A _ _ or __ _ _ at _ on

Q-3. The term used to denote biosphere with three abiotic components : E _ _ sp _ _ r _

Q-4. Fossil fuels are _ _ _- _ ene _ _ b _ e

Q-5. Only active volcano of South Asia : _ _ r_e _ I _ _ a _ _

Q-6. Earthquake magnitude is measuredon : _ _ _ _ _ _ _ S _ _ _ _

Q-7. Ambadongar [Gujarat] is famous for _ _ _ _ _ _ _ _ _ mineralization.

Q-8. C _ _ _ F _ _ _ of Jharia [Jharkhand] is a major threat to environment.

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Q-9. CFCsstandfor:C_____f_____c_____s

Q-10. Region of exceptionally depleted ozone is termed : _ _ _ _ _ _ _ _ _

Section-'B'

Answer the following short-answer-type questions with word limit 200-250. **(5x4=20)**

Q-1. Give the Basic conceptsof Environmental Geology.

OR

Discuss the Scope of Environmental Geology.

Q-2. Explain Landslides and with recent Indian examples.

OR

Elaborate Desertification and its Causes.

Q-3. Discuss consequences due to Reservoirs of large dams.

OR

Describe Subsurface changes due to Mining activities.

Q-4. What are Laws that protect Environment ?

OR

Discuss causes of Green House effects.

Section-'C'

Answer the following long-answer-type questions with word limit 400-450. **(10x4=40)**

Q-1. What is Conservation ? Why should we conserve Natural Resources ? Discuss in detail about the conservation and use of Non-renewable Fuel resources.

OR

'Earth's climatic changes - Past and Present in Geologic context'. Elaborate this topic with appropriate examples.

Q-2. What are Seismic hazards ? Describe seismicity conditions in India. Discuss measures of seismic mitigation.

OR

What are Cyclones ? Discuss Tropical Cyclone activities over the North Indian Ocean. Add a note on measures of mitigation of cyclones.

Q-3. What is Soil ? Discuss various sources of contamination of soil. How soil quality can be improved ?

OR

What is Groundwater ? Discuss causes of contamination of groundwater. Add a note on effect of groundwater quality by Urban waste disposal.

Q-4. What is Water Pollution ? Discuss various Environmental policies made by the Government of India for Pollution of Water.

OR

What is Environmental Management Plan [BMP] ? Why it is needed ? Discuss important components of an ideal environmental management plan.

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