

2015

M.Sc. Part-I Examination

ENVIRONMENTAL SCIENCE

PAPER—IV

Full Marks : 100

Time : 4 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer Q. No. 1 and any five questions from the rest.

1. Answer any ten of the following : 10×2

- (i) Define the term "Rehabilitation".
- (ii) What do you mean by 'educative guess' in connection to EIA ?
- (iii) What is the necessity of developing check list during EIA ?

(Turn Over)

- (iv) Define sustainable development.
- (v) What is environmental audit?
- (vi) Mention the difference between EIA and EIS.
- (vii) What is compensatory afforestation.
- (viii) Briefly highlight "green office guide line" in connection to environmental audit in India?
- (ix) Mention the *magnitude* and *relative importance* of impacts of a human action on environmental elements?
- (x) What is windrose?
- (xi) How does ISO '14001' act as a support system to EMP?
- (xii) Write two salient features of Govt. of India notification on EIA (1994).
- (xiii) How are land use alterations restricted in urban areas?
- (xiv) Define EIA-Matrix.
- (xv) Define 'green-audit'.

Answer any *five* from the following questions :

2. Assess the roles of land use - land cover to control local environment? Why is large scale land use conversion necessary for development projects? 8+7
3. Explain the procedures involved in Environmental Impact Assessment citing suitable examples. 16
4. Make a critical assessment on the roles of restoration and rehabilitation plans for minimising environmental damage in a mining area. 8+8
5. Prepare a check list to identify potential impacts of large dam construction on hydrological and social environment. 8+8
6. Explain the role of cost-benefit analysis for initiating a development project. How is the cost of environment damage incorporated in such analysis? 8+8
7. How do the issues of environment becomes part of planning and management? "Environment becomes the part of corporate vision, mission and strategy" — Explain with examples. 8+8

8. What are the objectives and goal of Environmental audit ?
Discuss the steps involved in process.

8+8

9. What is the urban land use policy ? Discuss how a model township planning can be made with special care on Environmental issues.