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C/16/D.D.E./M.Sc./Part-I/Env.Sc./4

2016

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 that 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 from the following : 10×2

(i) What is checklist method of impact evaluation ?

(ii) What is meant by restoration of environment ?

(Turn Over)

- (iii) Why is subjective assessment done for understanding relative importance of human action on environment ?
- (iv) Why are small check dams favoured over large dams ?
- (v) What are the objectives of EIA ?
- (vi) What is restoration ecology ?
- (vii) What are the stages of EMP preparation ?
- (viii) What are the possible hydrological impacts of industrialisation ?
- (ix) What is TOR ?
- (x) What are wildlife schedules ?
- (xi) What is ecologically sensitive area ?
- (xii) What are the aims of green audit ?
- (xiii) What is artificial recharge of water ?

- (xiv) What is corporate responsibility towards environment ?
- (xv) What are CRZs ?
2. Prepare a checklist to identify possible impact of opencast mining on physical and social environment. 8+8
3. Elaborately discuss the steps involved in Baseline information on environmental data collection. 16
4. Discuss the methods adopted for assessment of land use – land cover studies in any EIA. 16
5. Describe two important success stories of sustainable development in India. 8+8
6. Write an outline of land use policy in India. What are the physical impacts of massive land use conversion involved in large dam construction ? 6+10
7. Discuss the process of Environmental clearance with an example. 16

8. Present the guidelines for environmental audit in brief. Assess the importance of continuous monitoring on environmental impact. 8+18
9. Write the steps involved in EIA studies in relation to social impact survey. 16