

C13/5/2022 (MOR)
[This question paper contains 3 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1040 A

Unique Paper Code : 32183401

Name of the Paper : ENVIRONMENTAL IMPACT
AND RISK ASSESSMENT

Name of the Course : B.Sc. (Hons.) Environmental
Sciences – SEC

Semester : IV

Duration : 3½ Hours

Maximum Marks : 50

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. This paper contains **nine** questions.
3. Answer any **five** questions.
4. **All** Questions carry equal marks.

1. Explain the following :

(a) ETOP

P.T.O.

1040

2

- (b) Risk Characterization
 - (c) Cost-Benefit Analysis
 - (d) Cradle-to-grave approach
 - (e) Leopold Matrix
2. LCA is a tool for product analysis throughout its life cycle. Explain how to conduct the LCA of a product with the help of an example and what are the benefits of LCA?
 3. What are the various principles which govern the functioning of the Environmental Management System? Discuss the benefits of having Environmental Management Strategies.
 4. Discuss in detail the EIA guidelines in India. What are the challenges and issues for implementing EIA regulations in India?
 5. What is Risk Assessment? Discuss human and ecological risk assessment giving one example each.

1040

3

6. Write explanatory notes on the following :
 - (a) TOR
 - (b) Sustainable Development
7. An eight-lane highway has been proposed through a dense forest. This dense forest acts as an ecological barrier to a city. Give a detailed report on the potential impacts of this developmental project and ways to mitigate the significant impacts.
8. What do you understand by Environmental Appraisal? Explain various methods used for Environmental Appraisal.
9. Explain the principle of Cost-Benefit Analysis for studying the impacts of a developmental project on the environment. How can this method help us reduce the impacts of a developmental project?