

**ENVIRONMENTAL IMPACT ASSESSMENT
(CIV3244)**

Time Allotted : 2½ hrs

Full Marks : 60

Figures out of the right margin indicate full marks.

*Candidates are required to answer Group A and
any 4 (four) from Group B to E, taking one from each group.*

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

Group – A

1. Answer any twelve:

12 × 1 = 12

Choose the correct alternative for the following

- (i) Producers are
 - (a) Herbivorouss
 - (b) Heterotrophs
 - (c) Autotrophs
 - (d) Omnivorous
- (ii) Synecology focuses on the interactions between species and
 - (a) Ecological community
 - (b) Multiple ecosystems
 - (c) Large geographical area
 - (d) All of these
- (iii) The example of Lentic ecosystem in aquatic environment is
 - (a) Wetland
 - (b) creeks
 - (c) Canal
 - (d) Ocean
- (iv) EIA is a way of evaluating and controlling
 - (a) Different developing activities
 - (b) Adverse and beneficial impact
 - (c) Quality of human and environment
 - (d) Financial aspects
- (v) Scoping study is a procedure of focussing
 - (a) Impact
 - (b) Attributes
 - (c) Physical inputs
 - (d) Identifying issues
- (vi) The purpose of screening studies in EIA to
 - (a) Determine whether a full EIA is needed
 - (b) Inform facilities for decision making
 - (c) both (a) and (b)
 - (d) Assess the quality of the project design
- (vii) Water quality deterioration takes place in hydroelectric plant due to
 - (a) Trapping of organic matter
 - (b) Fish migration
 - (c) Renewal of water energy
 - (d) Decreased water flow

- (viii) Calculating the likelihood and severity of identified accidents considered within the scope of
 (a) Risk analysis (b) Risk estimation
 (c) Hazard identification (d) Risk evaluation
- (ix) Enactment of EIA as statutory requirement as environmental protection act Came into force in the year
 (a) 1974 (b) 1986
 (c) 1983 (d) 2003
- (x) Asia – Pacific centre of Environmental law is
 (a) National EIA board for SARC countries
 (b) Nongovernmental Organisation
 (c) International EIA Organisation
 (d) EIA approval centre for Asian countries

Fill in the blanks with the correct word

- (xi) The forest ecosystem provides wildlife _____.
- (xii) The behavioural ecology examines adaptation of _____.
- (xiii) Scoping studies of EIA step address alternative available for _____.
- (xiv) The concept of ecology was first proposed by _____.
- (xv) Use of fly ash for filling low-lying land area as a part of _____ projects

Group - B

2. (a) What do you mean by ecological imbalance? What are the causative factors for above effect? [[C01](Remember/LOCQ)]
- (b) With help of a neat line diagram describe the flow of energy and nutrient through different components of ecosystem. [[C01](Remember/LOCQ)]
- (c) Explain the classification of food chain. What is its significance for preservation of ecosystem? [[C01](Remember/LOCQ)]
- 4 + 4 + 4 = 12**
3. (a) What is terrestrial ecology? Give some examples. [[C02](Remember/LOCQ)]
- (b) How biotic and abiotic factors influence in terrestrial ecology? Explain with necessary illustration. [[C02](Remember/LOCQ)]
- 4 + 8 = 12**

Group - C

4. (a) Write down the steps for conducting EIA? [[C02](Remember/LOCQ)]
- (b) What are Scoping and Screening studies in EIA methods. [[C03](Remember/LOCQ)]
- 6 + 6 = 12**
5. (a) What are rapid EIA and comprehensive EIA? [[C02](Analyse/HOCQ)]

- (b) Write down an account for history of introducing EIA in India.

[[CO3](Remember/LOCQ)]

6 + 6 = 12

Group - D

6. (a) What do you understand by Environmental Risk analysis?
(b) Briefly explain few Risk analysis methods.

[[CO4](Analyse/HOCQ)]

[[CO4](Apply/IOCQ)]

6 + 6 = 12

7. (a) What is Cost-benefit ratio of industrial project? Describe the purpose of this tool for application in environmental impact process.
(b) What is HAZOP analysis? How it is conducted?

[[CO4](Apply/IOCQ)]

[[CO4](Apply/IOCQ)]

7 + 5 = 12

Group - E

8. (a) What is Cost-Benefit aspects of impact study.
(b) Do you feel that construction of any thermal power plant emerges any positive impact on society?

[[CO3](Analyse/HOCQ)]

[[CO3](Remember/LOCQ)]

5 + 7 = 12

9. (a) What is Environmental forest act? How this act is employed in EIA study?
(b) Discuss in NEPA for carrying out EIA evaluation.

[[CO4](Remember/LOCQ)]

[[CO4](Remember/LOCQ)]

7 + 5 = 12

Cognition Level	LOCQ	IOCQ	HOCQ
Percentage distribution	63.5	25	11.5

