

**ENVIRONMENTAL IMPACT ASSESSMENT
(CIVL 3242)**

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) Pyramid of energy depicts the total amount of energy
 - (a) Available in the ecological community
 - (b) Utilized by the organism at each trophic level
 - (c) At consumers level.
 - (d) All of these
- (ii) Crocodile is an example of species in
 - (a) Tropical rain forest ecosystem
 - (b) Marine ecosystem
 - (c) Freshwater ecosystem
 - (d) All of these
- (iii) Shark is an example of species in
 - (a) Lentic ecosystem
 - (b) Pond ecosystem
 - (c) Ocean ecosystem
 - (d) Small lagoon ecosystem
- (iv) An EIA is a tool for
 - (a) Economic analysis of the project
 - (b) To obtain financial fund
 - (c) Decision making aspect
 - (d) All of these
- (v) The number of steps activities for EIA study should not be less than
 - (a) 3
 - (b) 4
 - (c) 2
 - (d) 5
- (vi) EIA study was introduced in India in the year
 - (a) 1978
 - (b) 1986
 - (c) 1989
 - (d) 2001
- (vii) Fly ash generation problem mainly occurs in
 - (a) Coal washery
 - (b) Thermal power plant
 - (c) Mining industry
 - (d) Fish processing units

- (viii) Negative effects of hydroelectric power plants
 - (a) Production of huge suspension solids as sediment
 - (b) Community displacement
 - (c) Disruption of water flow
 - (d) All of the above
- (ix) The major function of the State pollution control boards in India is
 - (a) To control river pollution
 - (b) To prepare EIA documents
 - (c) To set environmental standards
 - (d) To arrange and disburse funding for preparing EIA
- (x) NAPCC stands for
 - (a) National action plan on carbon credit
 - (b) National action plan for carbon sequestration
 - (c) National action plan on climate change
 - (d) National assessment plan for carbon credit

Fill in the blanks with the correct word

- (xi) Rapid EIA study is conducted for a duration of _____.
- (xii) Lentic water environment is an example of _____.
- (xiii) Lotic Environment is observed in_____.
- (xiv) Category A projects require clearance from _____.
- (xv) EIA report is prepared and submitted to the _____ for approval.

Group - B

- 2. (a) With the help of neat sketch explain different regions of pond eco system. [[CO2](Remember/LOCQ)]
- (b) Briefly explain with example the economic significance of grazing ecosystem. [[CO2](Remember/LOCQ)]
What is the difference between food web and food chain? [[CO2](Remember/LOCQ)]
6 + 6 = 12
- 3. (a) Explain the term Biogeochemical cycle ? What is its ecological significance? [[CO2](Remember/LOCQ)]
- (b) Describe with neat diagram on nitrogen biogeochemical cycle. [[CO3](Remember/LOCQ)]
6 + 6 = 12

Group - C

- 4. (a) What is EIA? When it is mandatory? [[CO3](Analyse/HOCQ)]
- (b) Describe with line chart of different steps of conducting EIA study for clearance and appraisal of a new project. [[CO2](Apply/IOCQ)]
5 + 7 = 12

5. (a) What are desirable EIA methodologies? [[C02](Analyse/HOCQ)]
 (b) Explain the criteria for selection of methodology? [[C03](Remember/LOCQ)]
 (c) Write down the focus and objectives of EIA methodologies? [[C02](Remember/LOCQ)]
4 + 4 + 4 = 12

Group - D

6. (a) What are the structures of a standard EIA report? What are the control strategies for mitigating air pollution in coal based thermal power plant? [[C03](Remember/LOCQ)]
 (b) Describe the steps and necessary procedures for preparation of EIA document for a thermal power project. [[C04](Apply/IOCQ)]
6 + 6 = 12
7. (a) What is meant by Environmental risk assessment? What is its significance? What are the ecological effects likely to be induced during operation of a water resources project? [[C03](Remember/LOCQ)]
 (b) How impact of water quality on streams is induced due to construction of a thermal power plant? [[C04](Apply/IOCQ)]
7 + 5 = 12

Group - E

8. (a) What are the International laws regarding EIA study? [[C03](Remember/LOCQ)]
 (b) How public hearing of stake holders is conducted? [[C04](Remember/LOCQ)]
 (c) What are the guide lines of public hearing arrangement for EIA? [[C03](Remember/LOCQ)]
3 + 5 + 4 = 12
9. (a) What are the revised amended Rules on Solid waste management rules in India? [[C03](Analyse/HOCQ)]
 (b) What is Environmental health assessment study? [[C03](Remember/LOCQ)]
 (c) Give some outline on environmental management plan (EMP) for EIA Study. [[C03](Remember/LOCQ)]
4 + 4 + 4 = 12

Cognition Level	LOCQ	IOCQ	HOCQ
Percentage distribution	67.7	18.8	13.5

