

P. P. SAVANI UNIVERSITY

Fifth Semester of B.Sc. Examination
December-2021

SSES3070-Environment Impact Assessment-I

11.12.2021, Saturday

Time: 12:30 p.m. to 3:00 p.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

Section-I (Total Marks - 30)

Q.1 Short Questions

[10]

1.1 Objectives

[05]

1.1a Expand IAIA

- A Internal Association of Impact Assessment
- B Internet Association of Impact Assessment
- C International Association of Impact Assessment
- D All The Above

1.1b Data depicting the pre project environmental scenario is termed as

- A Standard data
- B Baseline data
- C Attribute data
- D Secondary data

1.1c First EIA Notification in India was promulgated on

- A 27 January 1994
- B 26 January 1992
- C 28 January 1996
- D 25 January 2002

1.1d Appraisal committee constitutes of

- A Central Level Expert Appraisal Committee
- B State Level Expert Appraisal Committee
- C Union Territory Level Expert Appraisal Committee
- D All of the above

1.1e All projects and activities are broadly categorised in

- A 1
- B 2
- C 3
- D 4

1.1f Category B will require prior environmental clearance from the

- A MoEFCC
- B SEIAA
- C Both a and b
- D Central Government

- 1.1g EIA report is not required in
 A Category A projects
 B Category B1 projects
 C Category B2 projects
 D None of the above
- 1.1h Broad areas of possible impacts by listing composite environmental parameters is
 A Ad hoc method
 B Checklist
 C Scaling checklist
 D Matrix
- 1.1i Pathways of an impact using a series of chains between a proposed action and the receptor of an impact
 A Scaling weight Checklist method
 B Cost benefit analysis
 C Network method
 D Descriptive Checklist
- 1.1j All Category 'A' and Category B1 projects or activities shall undertake Public Consultation, except
 A modernization of irrigation projects
 B expansion of Roads and Highways
 C Both a and b
 D None of the above

1.2 Answer the Following: (MCQ/Short Question/Fill in the Blanks) [05]

- 1.2a _____ is a document produced by the authority conducting the EIA study.
- 1.2b Prior environmental clearance granted for a project or activity shall be valid for a period of _____ years in the case of River Valley projects.
- 1.2c Leopold (1971) designed a matrix with a specified _____ actions and _____ environment composition.
- 1.2d EIA report should be complete, easily understood, objective, factual and internally consistent. (True/False)
- 1.2e Expand SEIAA and SEAC.

Q.2 Short Notes (Attempt any two) [06]

- A Discuss briefly contents of Terms of Reference.
 B Give an account on mitigation strategies in the EIA process.
 C Write down a short note on Environment Management Plan (EMP).

Q.3 Explain in detail (Attempt any two) [14]

- A Give detail account on various methods of analysis of Impacts on Environment.
 B Elaborate the significant stages of Environment Impact Assessment (EIA).
 C Explain different types of checklists.

Section-II (Total Marks - 30)

Q.1 Short Questions [10]

1.1 Objectives [05]

- 1.1a Which process enables project proponents to better respond to different stakeholders needs?
 A Public participation
 B Public hearing

- C Both A and B
- D None of the above

1.1b The public hearing process begins when the _____ publishes notice in at least two regional newspapers.

- A PCC
- B CPCB
- C SPCB
- D EAC

1.1c In questionnaire checklist, questionnaire is further evaluated in spread sheets to find the scale of impacts and weight of parameters based on _____.

- A Public opinion
- B Discussion
- C Expert opinion
- D None of the above

1.1d The EIA provides a _____ to assess the level of plan implementation and the efficiency of the environmental protection regulations.

- A Post monitoring programme
- B Mitigation programme
- C Monitoring programme
- D All of the above

1.1e In the form of a TOR, the Ministry receives the finalized list from which step of the EIA?

- A Scoping
- B Screening
- C Impact assessment
- D Post monitoring

1.1f In the process of public hearing, public may submit written suggestions, views, comments and objections to the SPCB within _____ days of the notice's publication.

- A 38
- B 34
- C 30
- D 31

1.1g The SPCB forms a public hearing panel that has representative from

- A Representatives of state government dealing with the project
- B Representatives of central government dealing with the project
- C District collector or his / her nominee
- D Both A and C

1.1h Which stage of EIA examines the alternative courses of action?

- A Impact analysis and prediction
- B Impact mitigation
- C Decision making
- D Reporting

- 1.1i Where an impact is expected, a _____ is drawn in the relevant interaction box on the matrix.
- A upright line
 - B diagonal line
 - C inverted line
 - D parallel line
- 1.1j Which EIA method involves numerous generic steps in the generation of numerical indices?
- A Delphi method
 - B Environmental Media quality Index Method
 - C Cost benefit analysis
 - D Network method
- 1.2 Answer the Following: (MCQ/Short Question/Fill in the Blanks) [05]**
- 1.2a Economic growth has resulted in the depletion of natural resources and the improvement of ecosystems. (True/False)
- 1.2b The Environmental Kuznets Curve is an upright U-shaped relationship between economic output per capita and some measures of environmental quality. (True/False)
- 1.2c Once public hearing is over, the project developer will get a NOC from SPCB and submit application to the MoEF for category B projects. (True/False)
- 1.2d Public consultation should begin with the origination of the project and continue throughout the EIA process. (True/False)
- 1.2e _____ is a highly technical document preventing proper understanding to affected communities with low level of literacy and thus limiting participation.
- Q.2 Short Notes (Attempt any two) [06]**
- A What role do NGO's play in public hearing?
 - B Explain process of public consultation.
 - C What are the practical considerations in impact assessment?
- Q.3 Explain in detail (Attempt any two) [14]**
- A Describe impact analysis and prediction stage and considerations in impact prediction stage of EIA.
 - B Explain relationship between economic development and environmental degradation.
 - C Explain process of public hearing.