BANGLADESH UNIVERSITY OF PROFESSIONALS
Military Institute of Science and Technology
B.Sc. in Environmental, Water Resources, and Coastal Engineering, Term Final (Spring)
Examination 2024: Oct 2024 - Nov 2024

Student Group: Earned Credit Hours>108

Subject: EWCE 431, Environment and Social Impact Assessment

Time: 3.00 hours **Full Marks: 180**

INSTRUCTIONS:

a. Use **SEPARATE** answer scripts for each section.
b. **Question-1** in **Section-A** and **Question-5** in **Section-B** are compulsory.
c. Answer any other **TWO** out of the remaining **THREE** questions from each section.
d. Figures in the margin indicate full **marks**.
e. Assume reasonable data if necessary.
f. **Symbols** and **abbreviations** used have their usual meanings.

SECTION-A

Question 1 **(Compulsory)**

a. Explain your understanding on environmental management. State the goals of environmental management. **10**

b. Explain the major environmental issues in Bangladesh. **10**

c. Illustrate five PIL (Public Interest Litigation) cases in Bangladesh mentioning the outcomes. **10**

Question 2

a. Define environmental policy. Discuss the guiding principles and objectives of Bangladesh Environmental Policy 1992. **12**

b. Define an ecologically critical area. State the responsible authority who can declare an ecologically critical area and based on which factors according to ECA 1995? List the activities that can be restricted in such areas. **10**

c. Define Environmental Clearance Certificate (ECC). List the process of obtaining ECC for Red category project? **08**

Question 3

a. Describe the traditional project cycle. How environmental considerations now a days are incorporated into the project cycle? Explain with diagrams. **12**

b. Differentiate between IEE and EIA. Explain how you would decide whether to do an IEE or EIA. **05**

c. Describe the different steps in the EIA process with a diagram. **08**

d. List the factors you should consider in selecting an EIA method for a development project. **05**

Question 4

a. Differentiate between source-oriented and impact-oriented approach of setting standards. **06**

b. Discuss the desirable characteristics of EIA methodology. **07**

c. Define Environmental Management Plan (EMP). What are the role of an EMP. **05**

d. Explain the strategies required to make the EMP effective. **06**

e. Explain environmental monitoring along with its purposes. **06**

SECTION-B

Question 5 **(Compulsory)**

a. "EIA ensures better protection of the environment and human health" – evaluate this statement according to the definition of EIA. **07**

b. Define 'baseline description' with reasoning as to why it is an important component of an ESIA. **05**

c. Prepare a general checklist of environmental components considering physico-chemical, biological and human interest related parameters that are commonly subjected to impacts from various development projects. **10**

d. A chemical industry is to be constructed in an agricultural land, which is next to the Dhaleshwari River and beside locality. Chemical waste contains mainly of lime, salt, chromium, lead and other inorganic substances. Identify and list down the significant Environmental and social impacts from the proposed project. **08**

Question 6

a. Explain the major components of SIA. Discuss the types of data needed to be collected in SIA. **08**

b. List the scopes of SIA in an EIA. Briefly describe the procedure of socio-economic survey conducted in SIA. **10**

c. You are a part of a team working for the Bangladesh Economic Zones Authority (BEZA) on "Development of Tangail Economic Zone" at Bhuapur Upazila, Tangail project. You must undertake a detailed ESIA report for the proposed economic zone at Bhuapur, Tangail. **12**
(i) Prepare a 'Table of Contents' for an ESIA report on the proposed project.
(ii) Prepare questions to conduct a questionnaire survey.

Question 7

a. Explain the methods that are used to assign value of changes in Environmental quality. **10**

b. Briefly discuss different phases of resettlement programme. **10**

c. Suppose, Narayangonj City Corporation (NCC) has planned to construct a solid waste dumping site in the city which may produce public nuisance. One of the key elements in implementing this project is to make effective communication with stakeholders and other. Answer the followings: **10**
(i) What type of economical evaluation you will need to perform?
(ii) What type of experts will you consider to work in your EIA team and why?
(iii) Do you need to undertake any survey?
(iv) What should be objectives of this EIA study?

Question 8

a. Explain how gender issues are addressed in ESIA process. **10**

b. Briefly explain the scopes of public participation in different stages of ESIA. **10**

c. Explain with examples on how “Alternatives” are considered in an EIA for a development project. **10**