# BANGLADESH UNIVERSITY OF PROFESSIONALS

**Military Institute of Science and Technology**

**B.Sc. in Environmental, Water Resources, and Coastal Engineering, Term Final (Spring)Examination 2021: July-Aug 2021**

**Student Group: Earned Credit Hours > 108**

**Subject: EWC-431, Environmental and Social Impact Assessment**

**Total** : **3.00 hours(ForPhysical Examination)** **Full Marks** : **180**
: **2.00 hours (Online Examination for Section-A + Section-B)**
**Section A** : **1.00 hour (Online Examination)** **Section A** : **90**

**INSTRUCTIONS- PHYSICAL EXAMINATION**

a. Use **SEPARATE** answer scripts for each section.
b. **Question - 1** in **Section-A** is compulsory.
c. Answer any **OTHER TWO** questions from **Section-A**.
d. Figures in the margin indicate full **marks.**
e. Assume reasonable data if necessary.
f. **Symbolsand abbreviations** used have their usual meanings.

**INSTRUCTIONS - ONLINE EXAMINATION(IF PHYSICAL EXAMINATION IS NOT HELD)**

a. **Question -1** and **Question - 4OR**(Viva Voce) in **Section A** are compulsory.
b. Answer any **OTHER ONE** question from **Q-2 & Q-3** of**Section-A**.
c. Instructions mentioned in d, e and f for physical examination are also applicable for Online Examination.

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## SECTION-A

**Question – 1 (Compulsory)**

a. List the scopes of SIA in an EIA. What questions need to be answered in order to meet the scopes? **09**

b. List the major and minor Socio Economic impacts of a development project. Explain these in the context of EIA. **10**

c. What are the importances of SIA in EIA, especially for developing countries? **11**

**Question – 2**

a. What is the "period of time" that the SIA should consider in an EIA of development projects? **09**

b. Define Socio-economic Impact Assessment (SIA). What is the origin of SIA within the scopes of EIA? **09**

c. Why the relation between EIA and SIA is considered to be poor? Explain those. **12**

**Question – 3**

a. What is "Direct Employment Labour Curve" in the context of SIA? Explain its attributes with an example. **10**

b. Show the linkages among the various Socio Economic Impacts of a Power project with flow diagram. **11**

c. Explain the followings in the context of " Establishing Economic Environment Baseline": **09**
   i) Host Economic Environment Area
   ii) Size of labour force

**Question – 4**

a. What is the area that the SIA in an EIA should cover? Explain with examples. **08**

b. Explain with examples how social difference can be environmentally significant based on **12**

i) Communities,
ii) Ethnic/ Tribal groups,
iii) Occupational groups,
iv) Socio Economic Stratification,
v) Age and gender.

c. What are the impacts of Employment Policies in a development project? Explain in the context of EIA. **10**

**OR**

VIVA VOCE (Compulsory in case of Online Examination) **30**

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**Section B** : **1.00 hour (Online Examination)** **Section B** : **90**

**INSTRUCTIONS - PHYSICAL EXAMINATION**

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

**INSTRUCTIONS- ONLINE EXAMINATION(IF PHYSICAL EXAMINATION IS NOT HELD)**

a. **Question - 5** and **Question - 8OR**(Viva Voce) in **Section B** are compulsory.
b. Answer any **OTHER ONE** question from **Q-6& Q-7**of **Section-B**.
c. Instructions mentioned in d, e and f for physical examination are also applicable for Online Examination.

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## SECTION-B

**Question – 5 (Compulsory)**

a. Define EIA. What are the main goals of Environmental Management? **02+05**

b. Compare the 'Environmental Clearance Procedure" between Orange-B and Red category industries. **08**

c. Define environmental policy. What are the guiding principles and objectives of Bangladesh Environmental Policy 1992? **02+10**

d. Write down the demerits of "Ad-hoc" method in preparing an EIA report. **03**

**Question – 6**

a. Describe the limitations of standards in Bangladesh ECR 1997. **08**

b. What are the basic steps of an EIA process? Why modeling the environment is necessary in the EIA process? **07+04**

c. Write down the desirable characteristics of EIA methods. **07**

d. Explain "Environmental Index". **04**

**Question – 7**

a. What are the basic limitations of Environmental Court in Bangladesh? **07**

b. Draw the most suitable framework of Environmental Management with an example. **08**

c. What is the importance of "Public Participation" in an EIA preparation? **07**

d. Describe the project cycle of "Environmental Impact Assessment." **08**

**Question – 8**

a. Describe four main types of checklist method of EIA with suitable examples. **12**

b. Describe the environment act chain approach. Explain how the environmental standards are related to the impact chain. **08**

c. What is the first basic step of an EIA report and why it is important? **05**

d. List the major environmental laws of Bangladesh. **05**

**OR**

VIVA VOCE (Compulsory in case of Online Examination) **30**