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-401, Professional Practices and Communication

Total	**: 3.00 hours (For Physical Examination)**	**Full Marks**	**: 120**
	: 2.00 hours (Online Examination for Section-A + Section-B)		
Section A	**: 1.00 hour (Online Examination)**	**Section A**	**: 60**

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. **Symbols** and **abbreviations** used have their usual meanings.

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

a. **Question - 1** and **Question - 4 OR** (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.

SECTION-A

Question – 1 **(Compulsory)**

a. How do you define an engineering project? Briefly describe the broad phases of a project life cycle with the 'project life cycle curve'. **04**

b. What is a project feasibility report? As a project manager, how do you assess correctly the fund requirements and plan for the fund of a project. **04**

c. What do you understand by the sustainable engineering project? Briefly describe the principles of sustainable development as a Civil and Environmental/Water Resources Engineer for your project. **04**

d. Define the barriers of professional communications. Describe the human factors/behaviors leading to the barriers of professional communication in your workplace. **04**

e. What is 'Code of Ethics' in your profession as an Engineer? Why the professionals should support the code of Ethics of the profession? **04**

Question – 2

a. What do you mean by Professional and professional practices? As a civil and environmental/water resources engineer, how do you ensure professionalism in your workplace? **05**

b. Define project proposal. Write down the purposes of an engineering project proposal. Describe in brief the different sections of a project proposal. **05**

c. What do you mean by IEB code of Ethics? Briefly describe the IEB code of Ethics. **05**

d. Briefly describe the different semantic barriers of professional communications. Why these barriers are being called as semantic barriers to professional/business communications? **05**

Question – 3

a. What do you mean by the zero-date of a project? Write down the important considerations depending on which the project site need to be properly selected and possession taken before the zero-date of the project. **05**

b. Why the cost estimation of a project is required? Briefly describe the different types of cost estimates that are made during the life cycle of a project. **05**

c. What are the basic characteristics of civil and environmental/water resources Engineers? Describe the different attributes of civil and environmental/water resources engineering as a profession. **05**

d. What is an external operational communication in professional environment? As a true professional, how you can improve Public Relation (PR) by external professional communication? **05**

Question – 4

a. What do you mean by the economic viability of a project? How are you going to assess the economic viability of your project by RoI? Give example. **05**

b. Briefly describe the ethical aspects of communication within your profession. **05**

c. Who is a consulting engineer? Describe the responsibilities of a consulting engineer while working in a construction firm. **05**

d. Describe in brief the different steps you are going to follow as a professional to remove the barriers in your profession of communication. **05**

OR

VIVA VOCE (Compulsory in case of Online Examination) **20**

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Section B	**: 1.00 hour (Online Examination)**	**Section B**	**: 60**

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 - 8 OR** (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.

SECTION-B

Question – 5 (Compulsory)

a. How do you define contact in procurement? Describe Public Private Partnership (PPP) contract. **04**

b. Define Limiting Tendering Method (LIM) of procurement. Briefly describe the procedures of enlistment of Tenderers/Contractors by Procuring Entity (PE). **04**

c. What do you mean by the Tender Security in procurement? Describe in brief, under what circumstances the Tender Security will be forfeited from the tenderers by PE? **04**

d. What do you understand by 'specification', which forms the part of tender/contract documents? Describe the fundamental points to be considered while preparing technical specifications for tender document. **04**

e. What is Job Application? As a job seeker, what should you do before responding to Job Advertisement? **04**

Question – 6

a. What do you understand by PPR-2008? Describe the circumstances under which PPR shall be applied? **05**

b. What is Request For Quotation (RFQ) method in procurement? Describe the procedures for the use of RFQ method of invitation of tender. **05**

c. What do you mean by the Procurement of Intellectual and Professional Services? Write down the differences between goods/works and services in Public Procurement. **05**

d. What is technical specifications of an equipment to be procured? As a PE, if you do not have adequate technical expertise, how you are going to prepare technical specification of an item for procurement? **05**

Question – 7

a. What do you understand by Tender Evaluation Committee (TEC) in procurement? Describe under what circumstances TEC shall not continue to evaluate a tender? **05**

b. What is a CV? Briefly describe the main parts of a standard CV. **05**

c. One of the evaluated responsive tender will have to sign a contract with PE for the execution of works/supply of goods. Describe in brief the documents that will form the contract in Public Procurement. **05**

d. What is DPM? Describe the different types of DPM in Public Procurement. **05**

Question – 8

a. Write short notes on the followings: **05**
   (i) Approving Authority (AA)
   (ii) Force Majeure
   (iii) Project Manager

b. Briefly describe the Quality and Cost based Selection (QCBS) method for the procurement of intellectuals and professional services. **05**

c. What do you think, why your CV for a job advertisement will be rejected? Write the different reasons for which CV submitted for a job will be rejected? **05**

d. Under what circumstances, as a PE, you will undertake 'Two Stage Tendering' method of procurement? Describe in brief the procedures for the Two Stage Tendering Method. **05**

OR

VIVA VOCE (Compulsory in case of Online Examination) **20**