BANGLADESH UNIVERSITY OF PROFESSIONALS
Military Institute of Science and Technology
B.Sc. in Environmental, Water Resources, and Coastal Engineering
Student Group: 108 < Earned Credit Hour, Spring Final Examination: June 2019

Subject: EWC-401, Professional Practices and Communication

Time: 3.00 hours **Full Marks: 120**

INSTRUCTIONS:

a. Use **SEPARATE** answer scripts for each section.
b. **Question- 4 in Section A** and **Question-8 in Section B** are compulsory.
c. Answer **any OTHER TWO** questions **from each section.**
d. Figures in the margin indicate **full marks**.
e. Assume reasonable data if necessary.
f. **Symbols** used have their usual meanings.

SECTION-A

Question – 1

(a) Explain the trade-off that you need to consider keeping sustainable ecosystem services. **10**

(b) Time, cost and quality are considered as triple constraints for a project management. Explain how these factors are linked with stakeholders. **10**

Question – 2

You are appointed at flood Forecasting and Warning Center (FFWC), BWDB to evaluate a bid for a project proposal "Managing Flash Flood in the Sylhet Basin". Explain the selection criteria with following 5 key words. Responding to need and demand, Impact and Scale, Gender and equity, Implementation, engagement with policy makers (Max 5 sentences for each). **20**

Question – 3

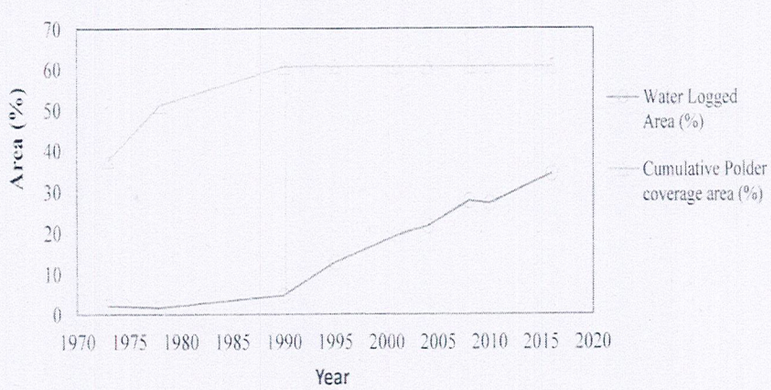
Prepare a contract document for a Project "Feasibility study for the restoration of the Buriganga river" offered to MIST by BWDB.

a. What would be the requirements to prepare valid contract document? **5**

b. Prepare a draft of the contract document with the key words: Express Terms, Implied Terms, Conditions, Warranties and Exclusion Terms. (Max 5 sentences for each) **15**

Question – 4

It is crudely believed that water logging in the coastal area is very much related to the polderization as shown below: **20**



You are asked to do undergraduate thesis to evaluate whether it is the reality or not.
Write down the title, objectives, methodology and outcomes in a thesis proposal with the aim to explore to what extent and how the coastal embankments are responsible for water logging. (Max 30 sentences).

SECTION-B

Question – 5

a. What do you understand by Professional ethics in Water/Environment Engineering? Discuss the typical ethical issues encountered in the above subject. **10**

b. Explain the following statement linking the construction of the Bangabandhu Bridge over the Jamuna and societal welfare. **10**
"Main connection between ethics and Civil Engineering comes from the impact that engineered communication within the society".

Question – 6

a. What are the Vancouver Recommendations on research ethics commitments? **10**

b. What are the requirements to be author or co-author of a research Article recommended in Vancouver rule? **10**

Question – 7

a. Research Reports are usually considered as the main medium of technical communications. What are the basic templates of such report? **5**

b. Fill up the template of a technical report prepared under the thematic topic "Construction of the Padma Bridge". **15**

Question – 8

The multi-purpose Padma Bridge will be connecting Bangladesh linking South-West to North-Eastern region. It is a mega project and divided into a number of sub-project as below: **20**

(a) Hydro-morphology at the bridge site.
(b) River Training works.
(c) Land acquisition and resettlement for the construction of approach roads.
(d) Environmental Action plan.

Write down title, objectives, methodology, outcomes in a summary report of each of the sub projects. (Max 10 sentences per report).