B.Sc. Enog. (CEE) 8th Sem.

8th March, 2024 (Morning ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)

ORGANISATION OF ISLAMIC COOPERATION (OIC)

| DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING | | | | | |
|---|-------------|---------------------------|--|--|--|
| Mid-Semester | Examination | Summer Semester 2022-2023 | | | |
| Course No. | : CEE 4831 | Time: 1.5 Hours | | | |

Course Title : Environmental and Social Impact Assessment

There are 3 (Three) questions. Answer all questions. Programmable calculators are not allowed. Do not write on this question paper. The figures in the right margin indicate full marks and corresponding CO and PO. The

among the proposed actions and environmental parameters in the following table.

local communities and the downstream river ecosystem by a team of researchers. They quantitively established a cause and effect relationship

What is the name of the matrix? Write down the differences between 'Network'

Calculate and list down the two most and least affected environmental

parameters from the proposed action. Also, list the two most important project

"FIA ensures better protection of the equironment and human health"evaluate this statement according to UNEP definition of EIA. What is the significance of the "Zero alternative" in EIA and how is it used to

CO1 BO1

Marks COs POs

CO1 PO1

| 2. | (a) | underwent a comprehen the environment and loca | on of an oil pipeline from Ca sive EIA process to evaluat il communities. The followin | e its potential impacts on ng table is a small part time | (3) | CO2 | PO2 |
|----|-----|---|--|---|------|-----|-----|
| | | dependent matrix of the in the scale of 0 to 5 whe | | | | | |
| | | in the state of 0 to 5 whe | | | | | |
| | | Footoneeses | Time dependent matrix | | | | |
| | | Environmental component | Project action (Construction period 5 years) | | | | |
| | | | Drainage congestion | excavation | | | |
| | | Soil | 43000 | 54310 | | | |
| | | Air quality | 05432 | 44021 | | | |
| | (b) | What is scoping? Write d | own the steps involved duri | ing scoping. | (4) | CO1 | PO1 |
| | (c) | | be constructed in an agricul | | (10) | CO3 | PO6 |
| , | | the Dhaleshwari River an lime, salt, chromium, I following- | | | | | |
| | | | ated impacts from the prop | osed project. | | | |
| | | | | | | | |
| | | (ii) How do you analyz significant? List down t impacts. | | | | | |
| | | (iii) What are the method evaluation? | | | | | |
| | | | t method sultable to analyz y and accuracy? Justify your | | | | |
| 3. | (a) | Alta Wind Energy Centre wants to establish a wind farm project near the California Coast that runs along the Pacific Ocean. The environmental effects of the project, including impacts on air and water quality, wilding and habitats, noise levels, and the visual landscape, (A wind farm in a coastal area is a group of wind turbines that are located near the coast to harness the wind energy because they often have strong and consistent wind speeds, making them ideal for generating wind power! | | | | CO4 | PO7 |
| | | | ticipation methods needed e viewpoint of sustainability | | | | |
| | | (ii) When (at what step) of approaches for conducting | do you determine the neces ig that process? | ssity of EIA? What are the | | | |
| | | (iii) What kind of people y | | | | | |
| | | | ng process that will be im for the sustainability of the | | | | |
| | (b) | | ires of ECA,1995? Write do or formulating the policies o | | (5) | CO5 | P08 |
| | | | Page 2 of 2 | | | | |