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Program: B.Sc.T.E 2-Year 2nd Semester
Semester: Summer

Date: 07 March 2024 (Thursday)
Time: 10:00 am – 11:30 am

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Examination: Mid Semester Examination
Course Number: Hum 4229
Course Title: Engineering Management

Academic Year: 2022 - 2023
Full Marks: 75
Time: 90 minutes

There are 4 (four) questions. Answer 3 (three) questions. Question 2 is compulsory. The symbols have their usual meaning.

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|----|----|--|----|-----|------|
| 1. | a) | Define the following terminologies in relation with engineering management. | 06 | | |
| | | i. Engineering, | | | |
| | | ii. Management, and | | | |
| | | iii. Engineering Management. | | CO1 | PO10 |
| | b) | Describe the origin of the word 'Engineering' and its evolution over the centuries. | 07 | | |
| | c) | Is engineering a profession? Justify your answer from a Sociological point of view. | 12 | | |
| 2. | a) | Differentiate between the 3 (three) managerial levels as defined in Engineering Management. | 09 | CO1 | |
| | b) | Hasan Nsubuga is a Computer Science graduate. After working 10 years as a software developer in Malware Limited and after finishing his MBA, he was appointed as the CEO (a senior managerial position) to lead the company as it recovers from the crisis caused by the COVID-19 pandemic. | | CO2 | |
| | | i. Briefly, outline the major responsibilities that Mr. Nsubuga will undertake in this new role. | 10 | | PO10 |
| | | ii. Which managerial skills does Mr. Qalam require most to succeed? Justify your answer with relevant examples. | 06 | | |
| 3. | a) | How would faulty designs produced or approved by engineers today affect their career? Provide examples from news reports or case studies that you have come across. Was the situation any different for engineers in ancient times? | 12 | CO1 | |
| | b) | The development of cotton and woolen mills in the mill cities of England, and later New England, caused tremendous sociological change as potential workers (especially women) swarmed from rural areas to the growing industrial cities. List 2 (two) examples of similar occurrences in more recent times in developing countries. | 08 | CO1 | PO10 |
| | c) | If you become a manager of a company, would you adopt the Scientific Management Technique? Defend your answer. | 05 | CO2 | |
| 4. | a) | What is planning? Why do we need it in every activities of our lives? | 07 | | |
| | b) | Explain the purpose of planning. | 12 | CO2 | PO10 |
| | c) | Name the 6 (six) steps of the planning process. | 06 | | |