MID SEMESTER EXAMINATION

05 March 2024 (Morning)

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

DURATION: 1 HOUR 30 MINUTES

Department of Computer Science and Engineering (CSE) SUMMER SEMESTER, 2022-2023

FILL MARKS: 78

CSE 4807: IT Organization and Management Programmable calculators are not allowed. Do not write anything on the question paper. Answer all 3 (three) questions. Figures in the right margin indicate full marks of questions with

- corresponding COs and POs in parentheses. 1. It may surprise you that two snowboard enthusiasts who simply wanted a better way to sell their snowboards online have created an e-commerce platform that now has over \$275 million in sales and hosts more than 20000 online retailers, including Pixar, Angry Birds, and the Foo Fighters. Tobias Lütke, CEO and founder, has created a business that allows companies of all sizes to set up their own online store, taking a task that used to take months and trimming it down to as little as half an hour. Shopify takes care of everything behind the scenes in return for a subscription fee and transaction fee. The business model focuses on dealing with other businesses. Given the
 - scenario, answer the following questions: a) As the CEO of Shopify, what are the skill sets that Tobias Lütke requires? Justify your answer.
 - b) According to Henry Mintzberg, a prominent management researcher at McGill University. a manager has to perform certain roles in an organization. Considering Shopify as an or-
 - ganization which conducts business with other business organizations, what should be the roles of Tobias Lütke in orchestrating such a successful organization as Shopify? c) How many different types of international organizations are there and what type of organi-
- 2. A small pastry shop at a tourist destination wants to expand its business to other locations in a different country. The pastry shop has a loyal customer base and has received positive reviews identity while expanding its reach. Regarding the pastry shop, it needs to avoid incurring significant upfront costs because of limited financial resources. At the same time, it desires to keep
 - control over its operations, brand identity, and customer experience. The pastry shop does not have the expertise to manage multiple locations and wants to benefit from the expertise of others. a) Mention and justify which type of business operation (importing, exporting, licensing, fran-
 - chising, strategic alliance) would be the most appropriate for the pastry shop
 - b) Hofstede discovered some dimensions for helping manager understand different national c) Management is coordinating work activities so that they are completed efficiently and effectively with and through other people. If you had to choose between being effective or being
 - efficient, which would you say is more important? Justify with examples.

Page 1 of 2

CSE 4807

- - management are integrated here to achieve strategic objectives? Explain with proper diagram.

 (2) What is Cocomo Model? Consider a project size of 300 KLOC is to be developed and the 2nroiset schedule is not view tight. Identify the project type and calculate the effort and de-

velopment time considering the developers having very high application experience and very low experience in programming as depicted in Table 1.

Table 1: Value of Cost Drivers for Question 3.c.

Personal Attributes	Very low	low	Nominal	High	Very High
Analyst Capability	1.46	1.19	1.00	0.86	0.71
Application Experience	1.29	1.13	1.00	0.91	0.82
Software Engineer Capability	1.42	1.17	1.00	0.86	0.70
Virtual Machine Experience	1.21	1.10	1.00	0.90	
Programming language Experience	1.14	1.07	1.00	0.95	