BBA in TM, 7rd Sem.

Date: October 11, 2023 (Afternoon)

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

DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT Winter Semester, A. Y. 2022-2023

Course No. : BTM 4763 Course Title : System Analysis Full Marks

Answer all 3 (three) questions. All questions carry equal marks, Marks of each question and corresponding CO and PO are written in the right margin with brackets.

10 (003) 1. a) You recently joined a retail sales company which has recently bought and assimilated a commercial supply house. Now you have been asked to develop a consolidated

inventory tracking system. Suggest which system development process you might use and why.

b) What are the technology and business drivers? How they influence information system development and use?

2. a) ABC Software Solutions is a mid-sized software development company that specializes in creating custom software applications for clients in various industries. Over the past few years, the company has faced challenges with inconsistent software quality, project delays, and client dissatisfaction. To address these issues, the company's management has decided to adopt the Capability Maturity Model (CMM) framework. The company's management has initiated the process of implementing CMM within the organization. They have formed a CMM team composed of senior software engineers, project managers, and quality assurance experts. The team has started by assessing the current software development processes and identifying areas that need improvement. They have also defined specific goals and objectives for each maturity level. The CMM team has made progress in implementing CMM practices. including defining standard processes, establishing metrics for process improvement, and providing training to employees. However, they have encountered some resistance from certain team members who are resistant to change. Additionally, there have been budget constraints and a need to balance short-term project demands with

long-term process improvement goals. Based on the above case answer the following questions:

Discuss the key steps involved in implementing Capability Maturity Model (CMM) framework.

What are the challenges that organizations might face during this process?

(PO1)

(PO2)

				9
	 Provide recommendations on how ABC Software Solutions can overcome the challenges to achieve higher maturity levels in their software developmen processes. 		(CO2) (PO3)	
H	b) HealthCare Innovators (HCI) is a large healthcare organization that manages seven hospitals and clinical scarses the country. HCI is committed to providing high-qualithealthcare services to its patients while optimizing its operational efficiency. Teachieve this goal, HCI has decided to implement the FAST (Transwork its Application of System Techniques) methodology to analyze and improve its healthcare systems. HCI has formed a decidented team of system analysts, healthcare processionals, and IT experts to implement the FAST methodology. They have chose a specific healthcare process, the particle admission and dicharge process, for analysts, healthcare process, the particle admission and officient process, the formed admission and soft interpretable process, the particle process, the particle process with the implementation of FAST, they have fined sever challenges. The healthcare evolution and regulations is credit. Additionally, the rare concerns and datas security and patient privacy. The team needs to balance the need for procein improvement with the need to maintain high bevise of platent care and safety. Using the case of HealthCare Innovators (ICIT, discuss the key steps involved implementing the AST methodology in a healthcare systemic rand safety.)	y oo or ts re m is s s, al th at t	(CO2) (PO2)	
	 a) What are the underlying principles of system development process? How they impate the success of system development projects? 	ct 8	(CO2) (PO2)	

	data security and patient privacy. The feath needs to behave the need by privacy in improvement with he need to manistal high levels of patient can and safety. Using the case of HealthCare Innovators (HCTs, discuss the key steps in improvement, the PAST methodology in a healthcare system, Highlight the challenges that organizations like HCT might encounter when applying FAST in a highly regulated and data-ensitive environment.		
a)	What are the underlying principles of system development process? How they impact the success of system development projects?	8	(0
b)	Mr. John is working as a system analyst who will be conducting a requirement analysis for an individually owned brick-and-mortar retail store with POINT-OF-	7	(1

SALE system. Identify who the typical internal and external users might include. Analyze what roles each user might play in the system. c) Assume that you have been assigned to conduct system requirement analysis of a

warehouse management system of a retail store. To successfully accomplish this assignment, what skills do you need and why?

10 (CO3) (PO3)