Date: December 9, 2023(Afternoon)

BBA in TM, 3rd Sem.

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

DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT

Semester Final Examination Course No. : BTM 4703 Course Title : Quality Management Winter Semester, A. Y. 2022-2023 Time : 3 hours Full Marks : 150

Answer all 6 (six) questions. All questions carry equal marks. Marks of each question and corresponding CO and PO are written in the right margin with brackets.

c. The process of making a batch of paint at Peter's Paint Products (PPP) paint factory consists of the following stops: First the correct amount of new materials must be mixed in the proper sequence. The operator must follow specified stately instructions. After mixing, as ample in drawn and tables to a laboratory, where it is tasted to ensure conformance to customer requirements and specifications. Next, the mixing tank is the state of th

a)	Develop a flowchart that maps out PPP's process	05	(CO3) (PO1)
b)	Enrich the flowchart by adding detailed steps, which may not have been described in detail.	10	(CO2) (PO2)
c)	Analyze if any opportunities exist for improving PPP's process.	10	(CO2) (PO2)
a)	Describe the Quality Circle using appropriate examples.	05	(CO1) (PO2)
b)	What approaches can you use to apply Deming's' Philosophy to improve quality in service industry?	10	(CO2) (PO2)
c)	Discuss the meaning of "Quality is a race without a finish line" in the context of Motorola company.	10	(CO2) (PO1)
a)	What did Philip Crosby mean by "Quality is free"?	05	(CO3) (PO4)
b)	Analyze experiences in which your expectations were met, exceeded, or not met when you purchased goods or services using American Customer Satisfaction Index Model. How did your experience change your affection for the organization and/or its product?	20	(CO3) (PO2)
a)	Design an instrument for evaluating the "process focus" for not for profit organization. For example, what characteristics would you look for in firms that have a three memory activation?	05	(CO2) (PO2)

- b) The kaizen philosophy seeks to encourage suggestions, not to find excuses for failing to improve. Typical excuses are "If it's not broken, don't fix it," "I'm too busy to work on it," and "It's not in the budget." Think of at least five other excuses why People don't try to improve.
- b. Industry 4.0 (4.0) has impacted various socio-economic fields which attended both researchers and ponctitioners to lowerignet offlorent impacts at different levels. Quality management is not an exception and the impact on its systems and practices has been discussed in the literatus but not extensively. With mart manufacturing systems, various charges impact how the products rate heat generatured. The value discussed in the literatus and the system of th

a)	What is the impact of I4.0 on improving quality management practices and how can these digital technologies be leveraged to the benefit of quality management area?	10	(CO2) (PO2)
b)	What are the current challenges that hinder Q4.0 adoption?	15	(CO1) (PO1)
a)	According to Harvard Business Review, a company with a highly developed culture of quality spends million dollar annually fixing mistakes than a company with a poorly developed one.	10	(COI) (POI)
b)	Mellins Class works for a software company as a balancial support representative. For diskin includes swareing the witelpoint, providing information to constance, and modelencoding technical problems. Her supervision tail Martin be contenue and not to non-callence. However, the supervision tail wite the technical problems of 15 citils per hour so that the department's secont manager can meet his or her holger, Mellins comes them each day forstanted because the computer is solve in delivering information that the needs and sometimes provides the wrong information, causing her to search for the information in composite smartle. When the is needs of the rise	15	(CO3) (PO2)

she often cuts the call off prematurely or provides only the minimal information necessary. Explain which of the 14 Points (Deming's) might be violated. Drawing uon Deming's principles, outline a plan to improve this situation for her team. (PO2)