B

BBA in TM, 5th sem.

Date: December 5, 2023 (Morning)

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

DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT

Semester Final Examination Course No. : BTM 4531 Course Title : Product and Service Development 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.

1.	a)	Define the strategy of locating in an unoccupied space for new product development. Why might a firm end up choosing an interior position in the unoccupied space region?	09	(CO2) (PO3)
	b)	Explain the relationship between product and process innovation. Which is easier for a firm to launch in the market? Justify your opinion with example.	10	(CO1) (PO1)
	c)	Why global thinking and cross-cultural literacy is important for a product manager?	06	(CO1) (PO1)
2.	a)	Why does innovation process need an organizational context with having proper integration of creative individuals, firm's operating activities and firm's external linkage? Explain.	08	(CO3) (PO6)
	b)	How can you relate innovation and technology diffusion with technology adoption in market? Give an example.	08	(CO3) (PO6)
	c)	Develop a new service by your own based on two-dimensional taxonomy. Graphically present your newly developed service.	09	(CO3) (PO6)
3.	a)	"Product management can cause conflict because the product manager has limited microical authority over many priors to the development, makening, and tales of the product, but may nevertheten bane bottom-line responsibility." Based on the above catament answere the following: i) What are the challenges a product manager faces to perform his responsibility? ii) What are the be solutions of theore challenges?	09	(CO1 PO1)
	b)	If consumers are unwilling to embrace new products that impose a high degree of change in consumption pattern for consumers, does this mean that firms should introduce only products that are similar to existing products? Justify your opinion.	08	(CO2) (PO3)
	c)	Briefly illustrate the implications of lead users of market adoption with example. Discuss the merits and limitations of lead users as a source of innovations.	08	(CO2) (PO3)

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- a) What is lean six sigma? How does lean six sigma enhance business excellence as well as customers satisfaction for a new product development. Give an example.
 (PO6)
 - b) The major objective of Design for Six Sigma (DFSS) is to "design it right the first time" to 08 (CO3) avoid painful downstream experiences. Do you agree with this statement? Justify your (PO6) opinion.
 - c) "Do in right the first time" is an old adage, referring to the fact that poor quality-of-execution sually treatly in the moly step by having to go back to fit things. Stable, quality-of-execution is notably lacking in many new product projects. Beginning decades ago, the causes of new product fiture were detailed, and avoided strong decades ago, the many new product projects were executed a lack of marker research, porty implemented launches, weak busines cases, and so or. Today, however, product development, busines takes, and so or. Today, however, product development face many new practices introduced to NPO (New Product Development) since them in order to deal with these challenges.

Now analyze the statement with example "Speed – but not at the expense of quality of execution".

- 5. a) Identify the different types of innovations in different scopes. Why is breakthrough 10 (C03) product, service or process development so difficult? Discuss with example.
 10 (C03)

 (P66)
 Explain the following concepts with examples:
 15 (C01)

 i. Cannibalization of product, process and service
 (P60)
 - ii. Frugal innovation
 - iii. Total quality management

Is AI Coming for Your Job

The launch of ChalOPT seems to have reignited doomsday fean about artificial intelligence (A) replacing worker/s/b A: these feans presistor to overholiver A recent survey shows 62 percent of A mericans think AI will significantly impact work and pickoldes over the next 20 years, et only 22 percent bielow the theolonoje will affect them personally. The deep learning-based AI tools that are now being introduced will have a performal impact on the labor market, elanging to the eventual elandianci of many jobs and the restructuring of many others. The effect will be particularly acute among knowledge worker—hows who do what has been tradicionally differed as non-routine cognitive work. Many people in such roles have been invalided from automation and globalization. That is about to change.

The change is likely to follow a path similar to one a character in Emest Homingowy's The Sor Also Rises well to describe his bases in this harhneys: It eccurred in "Prov rogs gradnally and then suddenly." Companies will move slowly to deploy generative AL technology like that embedded in OperAl's CharGPT. Harbersing the immerse pool of data underlying it will require the development of proprietary machine learning systems, requiring companies to add lated that is in their samely. 25 (CO3

PO6

(PO6)

2

Historically, technological revolutions have created mere jobs than they have destroyed. The real concern that people should have abox whether they will be replaced by those who have a digital mindeet, which is the ability use new possibilities and chart a path for the future using data, algorithms, A.J. and machine saming. The advent of the calculator didth make math. Itsis importants has all machine isaming, the advent of the calculator interposed of the state problems in their heads. The ability to structure a problem or gaal as a set of mathematical minimum states and the state of the state of the state of the state of the problems in their heads. The ability to structure a problem or gaal as a set of mathematical minimum states and the state of deep problem states and the state of the state of the state of the state and managemin translation states and the states and the states of the states and and the states of the states and the states of t

Answer the following:

- How can artificial intelligence restructure job opportunities in real business 08 world? Give examples.
- What might be the devastating challenges of AI that causes shrinking the 07 employment opportunity? Give examples.
- Are you developing your skills that can't be automated? Which are those 10 skills? In which sector these skills will help you to enhance your competencies? Explain.