Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MTM – SEMESTER – 9 - EXAMINATION - WINTER 2015

Subject Code: 4290103 **Date: 19/12/2015**

Subject Name: Technology Management

Time: 02.30 PM TO 05.30 PM **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Define technology and technology management. Explain the role and importance of technology management with special reference to India.	**07**
	(b)	Explain Distruptive technology in detail with example.	**07**
Q.2	**(a)**	Explain Delphi techniques as a technology forecasting in detail.	**07**
	(b)	What are the different stages of technology development? Explain in detail with examples.	**07**
		OR	
	(b)	Discuss the recent technology trends in India and China.	**07**
Q.3	**(a)**	What is the difference between leaders and followers for technology? Explain advantages & disadvantages of both with the help of example.	**07**
	(b)	Explain the process of technology innovation.	**07**
		OR	
Q.3	**(a)**	Define management of technology guiding principles for managing enterprises.	**07**
	(b)	Explain technology life cycle and market growth with example.	**07**
Q.4	**(a)**	What are the factors to be considered in developing technology strategies and R & D management?	**07**
	(b)	How is the evaluation of technology options & routes done? Discuss in detail.	**07**
		OR	
Q.4	**(a)**	Discuss the issues in the development of new high tech products with examples.	**07**
	(b)	What are the risks & rewards of technology outsourcing?	**07**
Q.5	**(a)**	Discuss the benefits of technology absorption and upgradation.	**07**
	(b)	"Technology assessment is different from technology evaluation". Explain & Illustrate.	**07**
		OR	
Q.5	**(a)**	Explain how does a company, which has imported a technology for a particular product adopts the technology absorption management strategy to remain competitive in the market.	**07**
	(b)	Write short notes on: i. Need for technology forecasting. ii. Effects of technology change.	**07**

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