MBA.T.I/11. 1011



MBA (TRAVEL AND TOURISM) DEGREE I SEMESTER EXAMINATION NOVEMBER 2011

SMT 2104 QUANTITATIVE TECHNIQUES AND OPERATIONS MANAGEMENT

Time: 3 Hours

Maximum Marks : 50

 $(5 \times 10 = 50)$

I.	А.	Distinguish between primary date and secondary data. What are the different methods of collecting primary data?
		OR
	В.	Calculate the standard deviation and coefficient of variation for the following data relating to investments by hotels.
		Investment in Lakhs $10-20$ $20-30$ $30-40$ $40-50$ $50-60$ $60-70$ of Rupees
		Number of hotels 12 10 25 15 20 18
II.	A.	Explain statistical process control. What are control charts? Explain the different types of control charts.
		OR
	В.	The following data relates to the annual sales of a company.
		Year 2003 2004 2005 2006 2007 2008
		Sales in Lakhs 7 10 12 14 17 20 of Rupees
		Obtain the trend values and estimate the sales for the year 2011.
III.	А.	Explain the unbalanced transportation problem and unbalanced assignment problem. Explain the main objectives of the transportation problem.
	В.	Explain the concept of decision tree. Distinguish between long term and short term forecasts.
IV.	Α.	Explain the main elements of a queuing sustem. OR
	В.	Explain the main objectives of inventory management. What is EOQ? What are it's assumptions?
V.	Α.	Explain the different types of layouts? Discuss what is meant by the P system of inventory control.
	В.	OR Write short notes on <u>ANY THREE</u> of the following:
		 (i) Layout Planning (ii) Line Balancing (iii) Linear Programming (iv) Safety Stock (v) Maintenance Management