Reg. No.										
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II SEMESTER M.TECH. (CONSTRUCTION ENGG. & MANAGEMENT) END SEMESTER EXAMINATIONS, APRIL/MAY 2017

SUBJECT: CONSTRUCTION MATERIALS MANAGEMENT [CIE 5232] REVISED CREDIT SYSTEM (25/04/2017)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Answer to the point.

1A.	Compare the characteristics of Transformational and Transactional leadership.									05
1B.	What is Economic Ordering Quantity? Derive the expression for it.									05
2A.	Explain Pre Purchase and Post Purchase Systems									05
2B.	What is Materials Requirement Planning (MRP)? Explain the methodology.								05	
3.	Forecasted prices for 22 months for cement/bag is given below. Using forecasted prices compute the expenditure on cement for a project running for that period using Hind sight strategy. The requirement of cement each month is 200 bags and the maximum storage capacity is 4 months requirement. 315,309,261,280,296,306,312,298,264,312,300,272, 259, 278, 302, 255, 283, 260, 283, 256, 287, 308.								10	
4.	economicall Investment A	y profitable Capital Investment (Lakhs of INR) 85	with r at 5%: Gross Annual Refor respective ye Equipment (Lal INR) 40,41,39,38,38.5,39.5,3	eturns, ears of khs of 40,	respective years for Life of Equipment (Lakhs of INR 25,23,25,25,24,22,23,22 8 109			Solvage Value	10	
5.	A Hallow block unit requires 90000 bags of cement for 300 working days, with a standard deviation of 18000 bags. The reliability factor k=1.65, Average lead time is 1 day and maximum lead time with 35% probability is 3 days. The unit cost of cement is Rs.325, carrying cost is 10% of unit cost and ordering cost is Rs.200 per order. Compute 5 cycles of Q-System. Cycle Daily Lead Time								10	

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