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VI SEMESTER B.TECH. (CIVIL ENGINEERING) END SEMESTER EXAMINATIONS, APRIL/MAY 2017 SUBJECT: RESOURCE MANAGEMENT [CIE 4004] REVISED CREDIT SYSTEM

(29/04/2017)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitable assumed.

		List the various integrated material management functions to be performed in												
1A.	planning, purchase and inventory management area. Explain how each of these functions are optimized to call it as an integrated material management.										04			
												la	A 1 a a	
	Conduct ABC analysis for the following items and plot the result on graph. Also, suggest the monitor and control policy for each type of Item based on the results.													
								type o	ı nem	based	On the	e resul	us.	
	Materia	1		Price			ntity							
	code (x10 ³ INR)			consu										
					projec		3)							
	CM 001						50							
	CM 002			1		{	30							
1B.	CM 003 0.002			20								06		
	CM 004 32						1							
	CM 005		2	20		-	10							
	CM 006		0.	0.01		5								
	CM 007		0.05			10								
	CM 008		0.15			1								
	CM 009		0.001			70								
	CM 010	M 010 0.3				15								
2A.	Emphasize the importance of i) Inventory management ii) Selective control.										03			
	A time ser	ries da	ata foi	r two	years	is tab	ulated	belo	w for	a con	structi	on ma	aterial.	
	A time series data for two years is tabulated below for a construction material. Suggest a price forecasting technique between moving average with N=3 and													
2B.	exponentia	al smoothening with N=				•								07
	Year-1	613	712	645	602	800	708	737	651	669	754	780	636	
	Year-2	679	672	610	723	798	747	720	670	758	732	706	655	
3A.	With the help of relevant figures, list distribution types of histogram										03			

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MANIPAL INSTITUTE OF TECHNOLOGY MANIPAL

A Constituent Institution of Manipal University Compute the total cost of the steel bar for the entire project period using conservative and hindsight strategy for monthly requirement of 250 units and optimal storage capacity of 2 months requirements. Comment on the results obtained. Month Month Price Price 3B. 4A. Explain Deming cycle of TQM implementation. Evaluate the profitability of the following equipment types (A and B) using Internal Rate of Return method r = 6% and 5%. Take salvage value at 5% of capital investment for both equipment. Comment on the results obtained. GAR in **ADED** in **Capital** Economic Lakhs of **Investment** Lakhs of life **INR INR** in Lakhs of В A B **INR** A В A 4B. В \mathbf{A} 38.5 22. 39.5 What are the benefits of implementing TQM philosophy against not implementing? 5A. Explain any five dimensions of quality. How quality assurance is different from quality control? Explain the activities that 5B. are performed in quality assurance system.

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