Reg. No.	
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MANIPAL INSTITUTE OF TECHNOLOGY MANIPAL

(A constituent institution of MAHE, Manipal)

VI SEMESTER B.TECH. (CIVIL ENGINEERING)

END SEMESTER EXAMINATIONS, APRIL/MAY 2018

SUBJECT: RESOURCE MANAGEMENT [CIE 4004] REVISED CREDIT SYSTEM (26/ 04/ 2018)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

✤ Answer ALL the questions.

✤ Missing data may be suitable assumed.

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1A.	List any four objectives of material management									
18.	Perform ABC analysis on the data tabulated below and present the results graphically. Suggest suitable monitor and control policy based on the results.Item No.Unit cost $(₹ x 10^3)$ Quality Consumed Annually10.12392020.17317030.0092531040.311671056.116470060.0416475070.0576572081.0663790.04551640100.06150250110.421850120.22605	8	2							
2A.	Price for a commodity for a period of 2 years is tabulated below. Suggest the best forecasting technique between moving average and exponential smoothening techniques. Take N=3, α =0.3. Year-1 125 132 115 137 122 130 141 128 118 123 Year-2 128 117 115 125 122 137 129 140 131 114	7	2							
2B.	How does the strategy for purchasing capital equipment differ from purchasing consumables? Explain									

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	Develop a pu	rchase strate	egy using	hind-si	ght approach.	Take monthly		
	requirement as	50 units and	inventory	constrai	nt as three mon	ths requirement.		
	What are your o	bservations	-			_		
	-	Month	Price	Month	Price			
		1	353	13	347			
		2	359	14	331			
		3	323	15	362			
		4	359	16	368			
24		5	334	17	358		_	•
3A.		6	368	18	359		7	2
		7	350	19	358			
		8	340	20	345			
		9	340	21	359			
		10	355	22	363			
		11	349	23	362			
		12	368	24	335			
		LI						
20					£		•	•
<i>3B</i> .	Explain the obje	ctive of purch	hase manag	ement re	elerring to the 5	K S	3	2
	Perform an econ	omic analysis	s on two eq	uipment	using:			
	i) Payback period							
	ii) Internal rate of return method.							
	Take r=13%, salvage value is expected at 10%. Suggest the most feasible							
	equipment to bu	у.						
	Equipment	Capital	GAR		ADED	Useful life		
11		Investment	(lakhs	₹)	(lakhs ₹)	(years)	7	2
4 A.		(lakhs ₹)					1	4
	А	75	35, 37	, 37.5,	15, 16, 16.5,	6		
			38, 36,	35.5	16,15,15.5			
	В	63	28, 28.	5, 29,	15, 13, 13.5,			
			29.5, 2	7, 26.5	11.5,12.5,13			
4B.	Identify the types of histogram using relevant sketches.						3	4
5A.	Differentiate bet	ween Quality	Control (Q	QA) and	Quality Assuran	ce (QC).	4	3
6 D	What is Quality Function Deployment (QFD)? Explain the process of							_
5B .	implementing QFD.							4