PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY M.Tech. Summer 2017 - 18 Examination

Semester: 2 Subject Code: 03216154 Subject Name: Pasauraa Managamant	Date: 25/05/2018 Time: 2.00 pm to 4.30 pm	
Subject Name: Resource Management	Total Marks: 60	
Instructions: 1. All questions are compulsory.		
2. Figures to the right indicate full marks.		
3. Make suitable assumptions wherever necessary.		
4. Start new question on new page.		
Q.1 A) Discuss precautions to be taken:		(05)
1. Before carry out the maintenance		
2. During maintenance		
B) Discuss various aspects of equipment planning.		(05)
C) Estimate book value of equipment at the end of each year of ownership from	om following data:	(05)
• Initial book value of equipment= Rs. 2500000.		
• Period of ownership= 5 years.		
• Salvage value= Rs. 200000, i= 16%		
• Use sinking fund method.		
Q.2 Answer the following questions. (Attempt any three) (Each five mark)		(15)
A) What is Standardization & Codification?		
B) Differentiate between ABC analysis, VED analysis and FSN analys	is.	
C) What is FAST diagram technique? How to create the FAST diagram		
D) Write following purchasing Principles: (i) Right Quality (ii) Right Price.		
Q.3 A) What is the standard procedure to create FAST diagram for any of the cor	struction project.	(07)
B) What is the difference between Procurement and Purchasing process		(08)
steps followed in Procurement life cycle.		()
OR		
B) What are the early and late procurement? Explain the advantages an	d die advantages of	(08)
• • • • •	u uis-auvainages oi	(00)
Centralized and Local purchasing?		(07)
Q.4 A) Enlist various equipment selection factors and explain any two in brief.		(07)
OR	a for aquinment	(07)
 A) State and discuss Task constrains, Site constrains and economic constrain Planning selection. 	s for equipment	(07)
B) For a rear dump truck, work out its cost per hour for hiring it out to the oth	on again as for the	(00)
	er agency, for the	(08)
following data:Showroom cost of truck = Rs 350000		
• Insurance premium per year = $Rs 45000$		
• Annual investment = 16.75% of average investment		
• Life of equipment = 4 years		
• Operating time = 3 shifts X 8 hours/day, 28 days/month		
• Efficiency factor = 0.90		
• Salvage value = 18% of show room cost		
• Maintenance and repair cost = 65% of annual depreciation		
• Annual overhead $cost = Rs 25000$		
• Fuel and lubricant cost per hour = Rs 300		
• Monthly salary of operator and helper = Rs 8000		
• Cost of one tyre = Rs 3000 (At least 2 tyres need replacement twice in	n a year)	
Use constant percentage method for depreciation.		