Code No: 117DV

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2017 INDUSTRIAL MANAGEMENT

Time	: 3 Hours		lechanical Engin	eering)	Max. N	Iarks: 75		
Note:	Tail B consists	pulsory which s of 5 Units. A	vo parts A and B. carries 25 mark Answer any one may have a, b, c a	s. Answer all of full question from	questions in Pom each unit.	art A. Each	•	
RP	RP	RP	PART-A	RP		5 Marks)		
1,a)	Why social respo	nsibility has beco	ome an important f	acet of managemer	nt in the present	times?		
(b) (c) (d) (d) (d) (e) (d) (e) (d) (e) (e) (e) (e) (e) (e) (f) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	What are the apple What is matrix or What do you und Give a comparative List out Muther's Give the basic aspectation Ishikawa Define the terms.	reciations of Fay- ganization? What erstand by the ter we statement in the principles of lay principles of lay pects that work states is Fishbone diagnostion a	ol's functional scho at are its strengths a rm span of control he location study of out? tudy takes care of.	ool of Management and weaknesses? and unity of con a rural site and ur applications?	t theory?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]		
RP	RP	RP	PART B	PP		0 Marks)		
2.a)	What are the bas	sic elements of	hierarchical read	approach? Wha	t are the effects	s of these		
b)	elements on the Elton Mayo proj	management st ected a new an	yle? gle of Manageme OR	nt. What is that a	ngle? Explain.	[5+5]		
3.a) b)	What are manag Examine the scient	erial functions? entific nature in	How are they int Taylor's scientif	egrated? ic management.	RP	[5+5]		
(4.a) b)	Distinguish betw What is a netwo adopting. Give it	ork organizatio		a functional organic the areas wher	nization. e it is best su	itable for [5+5]		
	Which organizatindustrial managanswer.	tion, formal or gement? How?	OR informal, do yo	ou feel is the streemplary situation	rengthener in one in support	of your [10]		
(6.a) b)	Define continuous production. List out its characteristics. Design the best suitable layout plan for a cool drink/ beverage bottling factory. (assume the data and required operations arbitrarily). [5+5]							
P	RP	RP	RP	RP	RP	RP		

7.a) I	OR Distinguish between cost and value. What are different types of values? Explain with	
(b)	examples. What facilities would influence (both favorable and/or unfavorable) the location decisions in the case of the following: i) city/urban sites, and iii) rural/countryside sites. [5+5])
	With reference to method study, describe the effect of the following factors: i) Economic factors; ii) Technical factors iii) Human fctors.	
b)	Construct X and R-charts from the following information and state whether the process is in control. For each of the following, X has been computed from a sample of 5 units drawn at an interval of 2 hours from an ongoing manufacturing process. Given $A_2 = 0.577$ and $D_3 = 0$ and $D_4 = 2.114$	
RP	Sample 1 2 3 14 5 6 7 8 9 10	
	Give your comments on the results. [5+5]	
9.a) b)	What are desirable characteristics of a sample taken for sampling plan? Explain. A job has been subdivided into 4 elements. The time for each element and respective ratings are given below: Calculate the normal time and standard time for each element and for the job if allowance is 5%.	
	Element no. Observed time Rating factor (%)	
PP	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
10.	A workshop shed construction project is composed of five jobs as P (foundation and walls), Q (roofing), R (install electricity), S (plumbing), and T (connect services to finish). Activity P must precede all others while activity T must follow all others. Apart from this, jobs can run concurrently. The normal cost in thousands of rupees per day for the activities are given in the form X(Nc/Nt, Cc/Ct) where (Nc is Normal cost, Nt is Normal time; and Cc is Crash cost, Ct is Crash time)) as P (60/10; 80/8), Q (24/12, 40/4), R (20/8, 36/6), S (24/10, 40/6), and T (32/6, 32/6). Draw the network and AON diagrams and identify the critical path. Also, crash the network fully to find out the minimum duration and optimum cost. Given is indirect costs as Rs. 6000/day.	
11.a) b)	J J	

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