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	Code No:	117EG				R13
	JAW I	AHARLAL NE B.Tech IV Year	I Semester Exan	inations, No	NIVERSITY HYI vember/December	DERABAD - 2016
	Fine: 3 F	Iours		TENT SCIEN to ECE, MM	T)	ax.Marks:75
	Pa Pa	rt A is compulsort B consists of :	contains two par ory which carries 5 Units. Answer marks and may ha	25 marks. A any one full one a, b, c.as s	nswer all questions question from each ub questions	s in Part A. unit. Each
	•		PA	RT-A		(25 Marks)
	i'''i :::: org b) Sta suit	anization? te any one pri table example.	inciple of Taylo	i'''i; r's Scientific	for the success o	eory and give [3] action methods.
	é) Nar f) Wh g) Def h) Wh i) Wh	ne the various le at are the importaine Float, Free F at are the require at is Bench Maiatives?!!	loat and Total Flo ments for selectin	ty Maturity Mower planning out for a project g which activities an organ	of a business organet activity. ity to crash in any phization derive ben	[2] project? [3]
			PA	RT-B		(50 Marks)
	in a b) Acc	business organiz	erg, what are the	two types of f	partmentation and dactors that influence	ecentralization
ICI -	in a	business organiz	e diagram and ex ation;;	*****	nam Maslow's Hiera	* * * * * * * * * * * * * * * * * * *
				FIG		AC
			AG	AG	AG	A FIGURE



b)

\* \* \* \* \* \*

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4.a)	What are the various	types of plant	layouts? Explain	with	suitable	examples	ar	ıd
	diagrams.				_		•	1

It was found out after an exercise involving customers and employees that a critical dimension of the service quality of a call center is the wait time of a caller to get to a sales representative. Periodically, random samples of three customer calls are measured for time. The results of the last four samples are in the following table:...

Sample	Tin	ne (Sec)	
1	495	501	498
2	512	508	504
3	505	497	501
4	496	503	492

Assuming that management is willing to use three sigma control limits, and using only the historical information contained in the four samples and the value of the constants given in the table below, check whether the call center access time is in statistical control or not. (Use x-bar & R chart)

S Chart Constants R Chart Constants for sigma X-bar Chart estimate Constants

Sample Size = m	$A_2$	A <sub>3</sub>	$d_2$	$D_3$	$D_4$	$B_3$	B <sub>4</sub>
317.0 11	1.880	2,659	1,128	0	3.267	0	3.267
3	1.023	1.954	1.693	0	2.574	0	2.568
3	0.729	1.628	2.059	0	2.282	0	2.266
	0.727	1.427	2.326	0	2.114	0	2.089
2	0.483	1.287	2.534	10	2.004	0.030	1.970
0	0.419	1.182	2,704	0.076	1,924	0.118	1.882
<u>'</u> ; :	(J.M12		*****	*****	×	*****	* * * * * * * * * * * * * * * * * * *

#### OR

- What are the assumptions in a basic EOQ model of inventory management. 5.a)
- A company makes bicycles. It produces 450 bicycles a month and works 12 months a year. It buys the tires for bicycles from a supplier at a cost of \$20 per tire. The company's inventory carrying cost is estimated to be 15% of cost and the ordering is \$50 per order (irrespective of the order size). Calculate the EOQ, number of orders in a year, total annual ordering cost, inventory carrying cost and total cost of this inventory policy.
- What are the essential differences between human resource management (HRM) and 6.a)personnel management & industrial relations (PM & IR).
- Why manpower planning is important for any organization? What are the factor the [3+7]influence man power planning?

# OR

- What do you understand by a performance appraisal system? What are the objectives 7.a)of a good performance appraisal system?
- What do you understand be employee grievances in an organization? What are the benefits of an effective grievance handling system?



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8.a)	Compare	and	contrast	between	СРМ	and	PERT,	in	the	context	of	project	
	manageme	ent.											

b) Draw the suitable network diagram and identify the critical path. What is the duration of the project that will have 50% chance of completion? [4+6]

Activity Immediate Optimistic (a) Most Likely (m) Pessimistic(b)

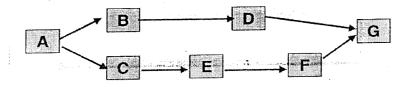
Activity	minieur	ate Optimisu	c (a) iviose Direc	7. X		
	Predece	ssor time	<u>time</u>		time	
A	x x * * * * * * * * * * * * * * * * * *	l week	2 weeks	* * ****	3 weeks	S
В		2	3		4	
Č	$\frac{\overline{A}}{A}$	1	2		3	
D	В	2	4		6	
Ē	C	1	4	.***. ,***.	7	**** * ****
F	······································	11:	2	* * * * * * * * * * * * * * * * * * *	9	
G	D,E	3	4		11	
H	F,G	1	2 .		3	
	,	Ω	•			

9.a) What are the rules to be satisfied for the identification of critical path?

You are given the following data about the project tasks; network, and crash times/costs. Calculate the cost of the project at all time durations until you can no longer crash the project anyfurther. Incentives of \$500 perday beyond initial duration will be available.

[4+6]

l i	4	Direct cos	its	
	Norn	are signaturation of the		rash
	Time	Cost	Time	Cost
Α	5	\$500	4	\$600
В	10	\$1200	6	\$2000
С	13	\$3600	11	\$4800
D	13	\$300	11	\$600
E	5	\$1000	4	\$1400
F	10	\$2400	8	\$5400
G	5	\$700	5	\$700
	n ta di	\$9700		



10.a) Perform a SWOT analysis for Indian Railways. Explain your logic briefly.

What is Corporate Strategy Planning Process? Why is this important for long term success of any business organization?