

III B. Tech II Semester Regular/Supplementary Examinations April- 2018 MANAGEMENT SCIENCE

(Common to Electrical and Electronics Engineering and Chemical Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in **Part-A** is compulsory

3. Answer any **THREE** Questions from **Part-B**

		<u>PART –A</u>	
1	a)	What are the objectives of Planning?	[3M]
	b)	Differentiate between Time study and motion study.	[4M]
	c)	Explain Job Evaluation.	[4M]
	d)	State the significance of PERT.	[4M]
	e)	Explain Strategic Management.	[4M]
	f)	What is Bench Marking?	[3M]
		<u> PART – B</u>	
2	a)	Discuss the components of Theory of Scientific Management.	[8M]
	b)	Explain the concept of organization as a process and as a structure	[8M]

- 3 a) Define operations management. Explain the nature and scope of operations [8M] management.
 - b) What do you mean by ABC analysis? What are its advantages? [8M]
- 4 a) The standard hours for job X is 100 hours. The job has been completed by A [8M] in 60 hours, B in 70 hours and C in 95 hours. The bonus system applicable to the job is as follows.

Percentage of Time Saved to time allowed	Bonus
Saving up to 10%	10% of time saved
From 11 to 20%	15% of time saved
From 21 to 40%	20% of time saved
From 41 to 100%	25% of time saved

The rate of pay is Rs.10 per hour. Calculate the total earnings of each worker and also the rate of earnings per hour.

b) Explain how market research can be carried out for formulating marketing [8M] strategy?

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5 a) State the differences between PERT and CPM and list out advantages and [8M] disadvantages of both the techniques.

Activity	Optimistic Time	Most likely time	Pessimistic Time
1-2	3	6	15
1-6	6	5	14
2-3	6	12	30
2-4	2	5	8
3-5	5	11	17
4-5	3	6	15
6-7	3	9	27
5-8	1	4	7
7-8	4	19	28

Draw the PERT network and determine the expected project completion time.

6	a)	What do you mean by mission and vision of the organization?	[8M]
	b)	How do you carry out SWOT Analysis for a manufacturing unit? Explain.	[8M]
7	a)	What is MIS? State its applications.	[8M]
	b)	Explain various objectives of Supply Chain Management.	[8M]

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				PARI –A			
1	a)	List the steps	in decision mak	ing process.			[4M]
	b)	What is flow o	chart?				[4M]
	c)	What is Merit	Rating?				[3M]
	d)	What are the s	steps involved in	n identifying critical	path.		[4M]
	e)	Differentiate b	between objectiv	ves and policies.			[4M]
	f)	What is baland	ced Scorecard	-			[3M]
				PART –B			
2	a)	Briefly discus	s the nature of n	nanagement.			[8M]
	b)	Compare the a	assumptions of t	heory X and theory	Y about the	employees.	[8M]
3	a)	Give the basic	procedure invo	olved in work study.			[8M]
	b)	What is mater	ials managemer	nt? Explain its impor	tance?		[8M]
4	a)	Calculate the of a) Time rate sy Standa Time t	earnings of a wo ystem b) Piece 1 ard Time=60 ho aken =40 ho	orker from the follow rate system c) Halsey urs; urs	ving details t v Plan d) Ro	under wan Plan.	[8M]
	b)	What do you	wage = Rs.2 pe mean by market	er hour plan a dearne ing? How it is diffe	ss allowance from sellin	e of Rs.2 per hour. g?	[8M]
5	a)	Write the deta	iled procedure i	nvolved in critical p	ath method.	-	[8M]
	b)	The following	table gives req	uired information of	a project.		[8M]
		Activity	Normal Co	ost	Crash Cost		
			Days	Cost (in Rs.)	Days	Cost (in Rs.)	
		1-2	3	500	2	1000	
		1-3	2	750	1	1500	
		1-4	6	1400	4	2600	
		2-4	5	1000	3	1800	
		2-5	7	1150	6	1450	
		3-4	2	800	2	800	
		4-5	4	1000	2	2400	

The indirect cost is Rs.650 per day. Determine the optimum cost and time for the project.

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Code No: RT32025	(R13)	(SET - 2)

6	a)	Explain the elements of corporate planning process with suitable examples	[8M]
	b)	What are the external factors to be considered while assessing opportunities and threats?	[8M]
7	a)	Write a note on Just-In-Time.	[8M]

b) What is Material Requirement Planning? Explain. [8M]

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[8M]

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PART –A

1	a)	What is MIS?										[3M]
	b)	Define work me	asuren	nent.								[4M]
	c)	Name any two H	IR rela	ted co	ontrolli	ing techi	niques.					[4M]
	d)	Write the advant	ages o	f sche	duling	g in a coi	nstructio	n projec	t.			[4M]
	e)	Differentiate bet	ween (Goals	and of	ojectives						[4M]
	f)	Explain importat	nce of	mana	gemen	t.						[3M]
					-	PART -	- <u>B</u>					
2	a)	What are the cha	llenge	s you	have t	o face a	s a mana	iger? Di	scuss.			[8M]
	b)	Explain merits a	nd den	nerits	of virt	ual orga	nization	•				[8M]
3	a)	What is method explain any one	l study type.	y? L	ist ou	t variou	s charts	associa	ated wit	h it and	l briefly	[8M]
	b)	Discuss about va	rious	types	of con	trol char	ts.					[8M]
4	a) b)	During the first articles. He rece hour. The estimincentive schem according to a) F Explain the mark	week of eives we mated he the Piece ra keting	of Jan vage f time time ate sys strate	uary 2 for a gu to pro allowe stem b gies ba	018 the parantee oduce of ed is in) Halsey used on p	workma d 48 hou ne articl creased Premiu product l	n Mr. A urs a we e is 10 by 20% m bonus ife cycle	arvind m ek at the minute b. Calc s plan c) e.	anufactu rate of s and un sulate hi Rowan'	ared 300 Rs.4 per nder the s wages s plan.	[8M] [8M]
5	a)	What do you me	an hy	orachi	naan	etwork?	State sta	on hviste	n nroce	dure of a	raching	[8]/[1
5	a) b)	A project has nit	an Oy	vition	the ev	encounted t	ima of a	op by su	p proce		nasining.	
	0)	A project has hill	1°	$\frac{1}{2}$	$\frac{1100}{24}$	$\frac{1}{2}$			$\frac{1}{2}$	5 7	67	[ow]
		Expected	6	1-3 Q	2-4 7	12	4-0	5	3-3 7	J-7	10	
		Time	0	0	/	12	5	5	/	11	10	
		(a) Draw	the p	roiect	netwo	rk						
		(b) Ident	ifv the	critic	al nath	1						
		(c) Find	nroiec	t dura	tion	•						
6	a)	"Proper scannin	g of e	nviroi	iment	is esser	tial for	effectiv	e execu	tion of s	strategy"	[8M]
0	u)	Justify the staten	nent ci	ting t	he eler	nents an	d merits	of envir	onment	al scanni	ng.	[0101]
	b)	Explain the impo	ortance	e of V	ision a	nd Miss	ion state	ments.			0.	[8M]
7	a)	What is Balance	d Scor	e Car	d Appr	oach?						[8M]

b) Explain Capability Maturity Model.

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[8M]

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PART_A

				I ANI -A						
1	a)	What is nature	e of Management?	,			[3M]			
	b)	Need for Inve	ntory control.				[4M]			
	c)	Bring out Cha	racteristic feature	s of sales promo	otion.		[4M			
	d)	What is sched	uling in project?	-			[3M			
	e)	Differentiate b	between policies a	nd programmes			[4M			
	f)	Explain the co	oncept of TOM	1 0			[4M			
	,	I		PART -B			L			
2	a)	Name and des	cribe the various	levels of manag	ement with th	neir functions.	[8M]			
	b)	What is matrix	x organization stru	icture and what	is uniqueness	s?	[8M]			
3	a)	Define Statistical Quality Control? Explain the significance and advantages of [Statistical Quality Control?								
	b)	What do you understand by Economic Order Quantity?								
Λ	a)	Explain the functions of Marketing								
т	a) b)	Define channe	els of distribution.	State its function	ons.		[8M]			
5	c)	Evaloin how	way datarmina th	a probability of	maating the	cabadulad data of	ron r			
5	a)	completion of	project	e probability of	meeting the	scheduled date of	Low			
	b) The following table indicates the list of activities with corresponding duration and cost. The indirect cost is Rs.25 per day. Determine the optimum cost and duration of the president.						[8M			
		Activity	Normal Cost		Crash Cost					
			Time (Days)	Cost (in Rs.)	Days	Cost (in Rs.)				
		1-2	3	180	1	220				
		2-3	4	120	2	160				
		2-4	7	50	3	70				
		3-4	5	40	2	70				
6	a)	Explain the ge	eneric strategy alte	ernatives with ex	kamples.		[8]			
	b)	"Vision, miss	ion, goals & strat	egies are interd	ependent" Ju	stify the statement	[8M			

- with explanations and their contribution to organization success.7 a) Define Enterprise Resource Planning? State the advantages and disadvantages [8M]
 - of Enterprise Resource Planning?b) Write a note on Six Sigma.

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