

Code No: RT32025 (R13) (SET - 1

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

***** PART –A

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]
		PART -B	
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 management.	[8M]
	b)	What do you mean by ABC analysis? What are its advantages?	[8M]

The standard hours for job X is 100 hours. The job has been completed by A 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.

b) The following table lists the jobs of a project with their time estimates. [8M]

	<u> </u>	J	
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 I	by mission ar	nd vision of the organization	n? [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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- 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**

PART -A

			<u> 1 AN 1 -A</u>		
1	a)	List the steps in d	ecision making process.		[4M]
	b)	What is flow char	t?		[4M]
	c)	What is Merit Ra	ting?		[3M]
	d)	What are the step	s involved in identifying critical p	oath.	[4M]
	e)	Differentiate bety	veen objectives and policies.		[4M]
	f)	What is balanced	Scorecard		[3M]
			PART -B	CO	
2	a)	Briefly discuss th	e nature of management.		[8M]
	b)	Compare the assu	imptions of theory X and theory	about the employees.	[8M]
3	a)		ocedure involved in work study.)-`	[8M]
	b)	What is materials	management? Explain its import	ance?	[8M]
	,				503.63
4	a)		nings of a worker from the follow	e e	[8M]
		•	em b) Piece rate system c) Halsey	Plan d) Rowan Plan.	
			Γime=60 hours;		
		Time take	. 191	II	
	• `	•	ge = Rs.2 per hour plan a dearner	•	503.63
	b)	What do you mea	n by marketing? How it is differ	from selling?	[8M]
5	a)	Write the detailed	l procedure involved in critical pa	th method.	[8M]
-	b)		ole gives required information of		[8M]
	0)	Activity	Normal Cost	Crash Cost	[01 v1]
					4

Activity	Normal Cost		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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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 [8M] threats?

7 a) Write a note on Just-In-Time. [8M]

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

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SET - 3

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Max. Marks: 70 Time: 3 hours

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** **** PART -A What is MIS? [3M] a) b) Define work measurement. [4M] c) Name any two HR related controlling techniques. [4M] d) Write the advantages of scheduling in a construction project. [4M] Differentiate between Goals and objectives. e) [4M] f) Explain importance of management. [3M] PART -B 2 What are the challenges you have to face as a manager? Discuss. a) [8M] Explain merits and demerits of virtual organization. b) [8M] What is method study? List out various charts associated with it and briefly 3 a) [8M] explain any one type. Discuss about various types of control charts. b) [8M] During the first week of January 2018 the workman Mr. Arvind manufactured 300 4 a) [8M] articles. He receives wage for a guaranteed 48 hours a week at the rate of Rs.4 per hour. The estimated time to produce one article is 10 minutes and under the incentive scheme the time allowed is increased by 20%. Calculate his wages according to a) Piece rate system b) Halsey Premium bonus plan c) Rowan's plan. Explain the marketing strategies based on product life cycle. b) [8M] 5 What do you mean by crashing a network? State step by step procedure of crashing. a) [8M] b) A project has nine activities, the expected time of each activity is as follows: [8M] Activity 1-2 1-3 2-4 3-4 4-6 5-6 3-5 5-7 6-7 12 11 Expected 5 10 Time (a) Draw the project network (b) Identify the critical path

- (c) Find project duration
- "Proper scanning of environment is essential for effective execution of strategy" [8M] a) Justify the statement citing the elements and merits of environmental scanning.
 - Explain the importance of Vision and Mission statements. b) [8M]
- What is Balanced Score Card Approach? www.FirstRanker.com 7 a) [8M] b) Explain Capability Maturity Model. [8M]



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- 2. Answering the question in **Part-A** is compulsory
- 3. Answer any THREE Questions from Part-B

		3	. Answer any Th	*****	s from Part-B			
				PART -A				
1	a)	What is nature of Management?						
	b)	Need for Inven	tory control.				[4M]	
	c)	Bring out Char	acteristic feature	s of sales promo	otion.		[4M]	
	d)	What is schedu	ling in project?				[3M]	
	e)	Differentiate be	etween policies a	and programmes		0	[4M]	
	f)	Explain the cor	ncept of TQM		·		[4M]	
		•	1	PART -B	4 .		-	
2	a)	Name and desc	ribe the various	levels of manage	ement with the	eir functions.	[8M]	
	b)	What is matrix	organization stru	organization structure and what is uniqueness?				
2	(م							
3	a)	Define Statistical Quality Control? Explain the significance and advantages of					[8M]	
	b)	Statistical Quality Control? What do you understand by Economic Order Quantity? [8]						
	b)	·	-		uantity?		[8M]	
4	a)	1						
	b)	Define channels of distribution. State its functions.						
5	a)							
		completion of project.						
	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						
		and cost. The duration of the		ks.25 per day. 1	Determine the	optimum cost and		
		Activity	Normal Cost		Crash Cost			
		retivity	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		
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6 a) Explain the generic strategy alternatives with examples.

[8M]

- b) "Vision, mission, goals & strategies are interdependent" Justify the statement 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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[8M]