



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR  
(AUTONOMOUS)**

Siddharth Nagar, Narayanavanam Road – 517583

**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code: Management Science(18HS0813)**

**Course & Branch: B.Tech – ECE,CSE & CSIT**

**Regulation: R18**

**Year & Sem: IV-B.Tech& I-Sem**

**UNIT –I  
INTRODUCTION MANAGEMENT**

1	a	Define Management and its functions	[L1][CO1]	[2M]
	b	Define System Theory	[L1][CO1]	[2M]
	c	What is line organization.	[L1][CO1]	[2M]
	d	Define Contingency Theory	[L2][CO1]	[2M]
	e	What is committee organization?	[L1][CO1]	[2M]
2.		Define Management. Describe nature and importance of Management	[L6] [CO1]	[10M]
3.		Define and explain in the management and its various functions.	[L6] [CO1]	[10M]
4.		Mention the elements of Scientific Management outlined by Taylor 's scientific theory	[L6] [CO1]	[10M]
5.		Explain the principles of Management as outlined by Henry Fayol's.	[L5] [CO1]	[10M]
6.		What do you mean by Departmentation? Evaluate any three methods of Departmentation.	[L5] [CO1]	[10M]
7.	a)	Briefly explain the Weber 's Ideal Bureaucracy.	[L5] [CO1]	[5M]
	b)	Examine the Span of control.	[L5] [CO1]	[5M]
8.		What are the various types of organization structures? Explain with them merits and demerits.	[L5] [CO1]	[10M]
9.		Examine line & staff organization structure. What are its Merits and Demerits?	[L5] [CO1]	[10M]
10.		Discuss the process of Organizing. Explain the principles to be observed while creating an organisation structure	[L6] [CO1]	[10M]

**UNIT –II**  
**OPERATIONS MANAGEMENT**

1	a	Explain principles of plant layout.	[L2][CO2]	[2M]
	b	Discuss functions of marketing .	[L2][CO2]	[2M]
	c	Enumerate the ABC analysis.	[L4][CO2]	[2M]
	d	Examine the algebraic model of EOQ.	[L2][CO2]	[2M]
	e	What is marketing mix?	[L1][CO2]	[2M]
2		Discuss and Explain the various types plant layoutwith suitable examples?	[L6] [CO2]	[12M]
3		Make a comparative analysis of the features of Different methods of production.	[L4] [CO2]	[12M]
4		Explain the concept of work study and its types	[L5] [CO2]	[12M]
5		Illustrate the objectives of Purchasing Function and its Purchasing Procedure.	[L2] [CO2]	[12M]
6		Elaborate the ABC analysis and derive algebraic model of EOQ	[L6] [CO2]	[12M]
7	a)	Explain the functions of marketing.	[L2] [CO2]	[6M]
	b)	Define the term “work study” and state its objectives.	[L1] [CO2]	[6M]
8		Explain the stages in Product Life Cycle with the help of diagram.	[L6] [CO2]	[12M]
9		What is distribution? Explain the process of channels of distribution.	[L2] [CO2]	[12M]
10		Write short notes on:	[L1] [CO2]	[5M+5M]
	a) b)	Marketing concepts. Types of advertising.		

**UNIT –III**  
**HUMAN RESOURCE MANAGEMENT**

1	a	Define HRM.	[L1][CO3]	[2M]
	b	Explain function of HRM.	[L3][CO3]	[2M]
	c	Write about wage and salary administration.	[L1][CO3]	[2M]
	d	Discuss Placement and Employee Induction.	[L1] [CO3]	[2M]
	e	Discuss Job analysis	[L2] [CO3]	[2M]
2.		Define HRM. Explain and its functions.	[L5] [CO3]	[10M]
3.		Explain and evaluate the process of recruitment and employee selection	[L5] [CO3]	[10M]
4.		Discuss the various steps in Human Resource Planning Process.	[L6] [CO3]	[10M]
5.		Define training? Explain the types of the job training methods.	[L5] [CO3]	[10M]
6.		What is Job evaluation? Explain various methods of Job Evaluation	[L5] [CO3]	[10M]
7.		What are the steps involved in setting up grievance redressal machinery?	[L2] [CO3]	[10M]
8.		What is a Job? What do you understand job analysis and its process?	[L2] [CO3]	[10M]
9.	a)	Discuss the wage and salary administration	[L6] [CO3]	[6M]
	b)	Evaluate on-the job training.	[L5] [CO3]	[6M]
10.		Briefly Discuss the methods of Performance Appraisal.	[L5] [CO3]	[10M]

**UNIT –IV**  
**STRATEGIC MANAGEMENT**

1.	a	Derive the environmental scanning process.	[L2][CO4]	[2M]																												
	b	Explain about SWOT analysis.	[L2][CO4]	[2M]																												
	c	What are the stages of strategy formulation and implementation?	[L2][CO4]	[2M]																												
	d	Define PERT and importance in Network analysis	[L1] [CO4]	[2M]																												
	e	Differentiate between PERT and CPM.	[L2] [CO4]	[2M]																												
2.		Examine the concept of corporate planning. Discuss the essential steps in corporate planning through a flow chart.	[L4] [CO4]	[10M]																												
3.		Discuss about environmental scanning and explain the process of environmental scanning	[L6] [CO4]	[10M]																												
4.	a)	How do you formulate and implement a strategy? Explain.	[L4] [CO4]	[6M]																												
	b)	Elaborate the environmental analysis with suitable examples.	[L6] [CO4]	[4M]																												
5.		Explain SWOT analysis and its components by taking an industry example.	[L4] [CO4]	[10M]																												
6.		Identify and discuss the stages in the process of strategy formulation and implementation.	[L4] [CO4]	[10M]																												
7.		Explain and illustrate what you understand by network analysis. How would you compare PERT with CPM?	[L4] [CO5]	[10M]																												
8.	a)	Illustrate the elements of Corporate Planning Process.	[L3] [CO4]	[6M]																												
	b)	Explain the nature of Project cost and its types.	[L4] [CO4]	[4M]																												
9		<p>A small engineering project consists of six activities. The three time estimates in number days for each activity are given below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Activity</th> <th>1-2</th> <th>2-3</th> <th>3-5</th> <th>5-6</th> <th>1-4</th> <th>4-5</th> </tr> </thead> <tbody> <tr> <td><math>t_o</math></td> <td>2</td> <td>1</td> <td>0</td> <td>7</td> <td>3</td> <td>2</td> </tr> <tr> <td><math>t_m</math></td> <td>5</td> <td>1</td> <td>6</td> <td>7</td> <td>3</td> <td>8</td> </tr> <tr> <td><math>t_p</math></td> <td>8</td> <td>1</td> <td>18</td> <td>7</td> <td>3</td> <td>14</td> </tr> </tbody> </table> <p><b>Find out:</b></p> <ol style="list-style-type: none"> <li>Calculate the values of expected time (<math>t_e</math>), and S.D variance (<math>v_i</math>) of each activity</li> <li>Draw the network diagram and mark on each activity</li> <li>Calculate EST and LFT and mark them on the network diagram</li> <li>Calculate total slack for each activity</li> <li>Identify the critical path and mark on the network diagram</li> <li>Probability of completing project in 25 days.</li> </ol>	Activity	1-2	2-3	3-5	5-6	1-4	4-5	$t_o$	2	1	0	7	3	2	$t_m$	5	1	6	7	3	8	$t_p$	8	1	18	7	3	14	[L3] [CO5]	[10M]
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$t_p$	8	1	18	7	3	14																										
10	a)	Identify the critical path for the following network.	[L3] [CO5]	[4M]																												

	b)	For the Particulars of given data work out the minimum duration of the project and corresponding cost.	[L1] [CO5]	<b>[6M]</b>	
Activity	Job	Normal time	Crashing time	Normal cost	Crashing cost
A	1-2	10	6	400	600
B	1-3	4	2	100	140
C	2-4	6	4	360	440
D	3-4	8	4	600	900
E	2-5	8	6	840	1100
F	4-6	6	2	200	300
G	5-6	10	8	1200	1400

**UNIT –V**  
**CONTEMPORARY ISSUES IN MANAGEMENT**

1.	<b>a</b>	Briefly explain about MIS.	[L3][CO5]	[2M]
	<b>b</b>	Explain about Six Sigma.	[L3][CO5]	[2M]
	<b>c</b>	Business process Re-Engineering –discuss.	[L2][CO5]	[2M]
	<b>d</b>	Explain the concept of JIT	[L3][CO5]	[2M]
	<b>e</b>	Write about MRP.	[L1][CO5]	[10M]
2.		Elaborate the how modern concepts like JIT, MRP, Six Sigma changed the production environment?	[L6] [CO3]	[10M]
3.		'Business Process Reengineering deals with the restructuring the processes associated with the products or services'. Do you agree? Illustrate.	[L4] [CO3]	[10M]
4.	a)	Discuss Management Information System (MIS) and How it works in an organisation.	[L6] [CO3]	[5M]
	b)	State the needs for Supply Chain Management and its potential benefits.	[L1] [CO3]	[5M]
5.		Explain the enterprise resource planning and its utilities in management.	[L5] [CO3]	[12M]
6.	a)	What is Six Sigma and how does it work.	[L1] [CO3]	[5M]
	b)	State different forms of materials requirements planning.	[L3] [CO3]	[5M]
7.		What is Business Process Outsourcing? Explain its types and benefits.	[L1] [CO3]	[10M]
8.	a)	What is TQM and its importance?	[L1] [CO3]	[5M]
	b)	What is balanced score card? How it is useful for a company?	[L1] [CO3]	[5M]
9.		What is knowledge management? Explain Its importance and models of KM.	[L5] [CO3]	[10M]
10.		What is Bench Marking and how does an organization derive benefit from such initiatives?	[L1] [CO3]	[10M]

**Preparedby:**

**Dr.L.Kuladeep Kumar, Dr. M. Jayalakshmi, Mr. B. Sampath Kumar/MBA**

**SIETK**