



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

ELECTRONICS AND COMMUNICATION ENGINEERING

TUTORIAL QUESTION BANK

Course Name	MANAGEMENT SCIENCE
Course Code	A50014
Class	IV B.Tech I Semester
Branch	Electronics and communication Engineering
Year	2018 – 2019
Course coordinator	Dr.T.Srinivas Rao, Professor & Head of the Department of MBA
Course Faculty	Ms K.L.Revathi, Assistant Professor, Department of MBA Ms B.swathi, Assistant Professor, Department of MBA Dr.T.Srinivas Rao, Professor & Head of the Department of MBA

OBJECTIVES

To meet the challenge of ensuring excellence in engineering education, the issue of quality needs to be addressed, debated and taken forward in a systematic manner. Accreditation is the principal means of quality assurance in higher education? The major emphasis of accreditation process is to measure the outcomes of the program that is being accredited.

In line with this, Faculty of Institute of Aeronautical Engineering, Hyderabad has taken a lead in incorporating philosophy of outcome based education in the process of problem solving and career development. So, all students of the institute should understand the depth and approach of course to be taught through this question bank, which will enhance learner's learning process.

S.No	Questions	Blooms Taxonomy Level	Course Outcome
UNIT – I			
INTRODUCTION TO MANAGEMENT			
PART - A (SHORT ANSWER QUESTIONS)			
1	Define management.	Understand	1
2	Discuss the importance of management.	Understand	1
3	Write about the leadership styles.	Remember	1
4	What are the advantages of departmentation.	Understand	1
5	Explain about types of organization.	Understand	1
6	State the nature of management.	Remember	1
7	Give two examples of modern organization.	Remember	1
8	Describe about the responsibilities of management.	Remember	1
9	Write the structure of organization.	Remember	2
10	Discuss about the importance of approaches of management.	Understand	2
11	Explain the concepts related to organization.	Remember	1
12	Elucidate about the centralization in an organization.	Remember	1
13	Write about autocratic leadership style.	Remember	1
14	illustrate about the concept of theory X.	Understand	2
15	Elaborate the lower level of management.	Understand	2
16	Write a short note on theory Y.	Remember	2

17	Define decentralization.	Understand	2
18	List out the principles of fayol's.	Remember	1
19	Describe about the committee organization.	Remember	1
20	Write the merits of matrix organization.	Remember	1
21	Draw a diagram for line and staff organisation.	Remember	2
22	Define span of management.	Understand	2
23	What do you mean by delegation of authority?	Remember	1
24	Distinguish the relationship between management and organization.	Remember	1
25	Define the term authority.	Remember	1
PART - B (LONG ANSWER QUESTIONS)			
1	Explain Douglas McGregor's theory x and theory y.	Remember	1
2	Elaborate Hertzberg two factor theories of motivation- leadership styles social responsibilities of management.	Understand	1
3	Describe the modern trends in organization structure designs.	Remember	1
4	Distinguish between centralization and decentralization.	Understand	1
5	Write about the different types of organizations based on authority relationships.	Remember	1
6	Discuss briefly about the systems approach to management.	Understand	1
7	Define leadership and describe the different types of leadership styles.	Understand	2
8	Mention the different needs as identified by Abraham Maslow. Give an example of each.	Understand	2
9	Write about the Henry Fayol principles of management.	Remember	3
10	According to Taylor's scientific management approach bring to the process of management? Did it change the value of time? If so, in what way?	Remember	3
11	Define organizations. Describe about the principals of organizations.	Understand	1
12	What is management? Write the scope and importance of management.	Understand	2
13	Write in detail about the functions of management.	Understand	2
14	Describe briefly about the social responsibility.	Remember	3
15	Brief a short note on delegation of authority and span of management.	Remember	3
PART - C (ANALYTICAL QUESTIONS)			
1	Give examples for modern and traditional organization	Remember	1
2	Describe briefly about the different approaches carried in an organization with suitable examples?	Understand	1
3	Explain the real life example of a leader and what is the role played in an organization?	Remember	2
UNIT - II			
OPERATIONS AND MARKETING MANAGEMENT			
PART - A (SHORT ANSWER QUESTIONS)			
1	Write about the job production.	Understand	4
2	State the term TQM.	Understand	4
3	Describe about the method study.	Understand	4
4	Define JIT system.	Understand	4
5	Discuss economic order quantity.	Understand	5
6	What is ABC analysis?	Remember	5
7	Elaborate about the business process reengineering.	Remember	5
8	Write about the six sigma.	Remember	6
9	Discuss about the stores management and stores record.	Remember	6
10	Define work study in detail.	Understand	6
11	Distinguish SQC.	Understand	6
12	Define marketing.	Understand	6
13	Write about the maturity level in PLC.	Understand	6
14	Explain about marketing mix.	Remember	6

15	Define supply chain management.	Remember	6
16	What is mass production?	Understand	6
17	Write about the EOQ.	Understand	4
18	Define inventory control.	Understand	5
19	Write about the batch production.	Remember	5
20	Define the acceptance sampling.	Understand	4
21	Write any two objectives of inventory control.	Understand	5
22	List out the methods of production.	Remember	5
23	Write the formula for C chart.	Understand	4
24	Define quality.	Understand	5
25	Write the benefits of JIT system.	Remember	5

PART - B (LONG ANSWER QUESTIONS)

1	Discuss plant layout and methods of production with the help of neat diagram with examples.	Remember	4
2	Explain EOQ, ABC Analysis how the management will take the decisions according to the economic order quantity.	Understand	4
3	Explain Materials Management? and write importance and objectives of material management.	Understand	4
4	Explain Need for Inventory control and how the management will control the inventory in an organization.	Remember	4
5	What is work-study basic procedure involved in method study and work measurement?	Remember	4
6	Discuss briefly about the Purchase Procedure process with the help of pictorial representation.	Understand	5
7	Explain briefly about just in time system and supply chain management.	Remember	5
8	What are the marketing strategies based on Product life cycle and discuss each stage and importance in an organization?	Remember	5
9	Discuss channels of distribution.	Understand	5
10	Explain Stores Management how is it useful in organization.	Remember	6
11	What are the functions of marketing and discuss briefly about the marketing mix?	Remember	6
12	Define about the quality? Write about Deming's contribution to quality.	Remember	6
13	Discuss the various stages in product life cycle? Why it is essential for the marketer to know about the stages in PLC of a product.	Remember	6
14	How the marketing is different from selling? Explain how marketing starts and ends with the customer?	Remember	6
15	Explain the objectives of purchasing function? How do you organize the purchasing department?	Remember	6

PART - C (ANALYTICAL QUESTIONS)

1	<p>The following information is about the shock observers used by an automobile workshop :</p> <p>Annual demand: 4800 units Unit price: Rs 300 Cost of placing an order : Rs 50 Storage cost : 3% PA Interest rate: 15% PA Calculate EOQ and also and find the number of orders to be placed?</p>	Understand	6
2	A biscuit manufacturing company buys a lot of 10 000 bags of wheat pa the cost per bag is Rs 500 and the ordering cost is Rs 400 the inventory carrying cost is estimated @ 10% of the price of the wheat determine EOQ?	Understand	6

43	<p>Convert the following data into a control chart and present the following information of data found in each sewing machine cabinet inspected plot a control chart with control limits</p> <table border="1"> <thead> <tr> <th>S.NO</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>No of defects</td> <td>8</td> <td>10</td> <td>7</td> <td>9</td> <td>6</td> <td>7</td> <td>8</td> </tr> </tbody> </table>	S.NO	1	2	3	4	5	6	7	No of defects	8	10	7	9	6	7	8	understand understand	6 6
S.NO	1	2	3	4	5	6	7												
No of defects	8	10	7	9	6	7	8												

UNIT – III

HUMAN RESOURCES MANAGEMENT (HRM)

PART A (SHORT ANSWER QUESTIONS)

1	Define human resource management.	Remember	7
2	Discuss about the performance appraisal.	Remember	7
3	What is man power planning?	Understand	7
4	Write about the recruitment process.	Understand	7
5	Define PMIR.	Remember	7
6	Write about on-job training.	Remember	7
7	What is merit rating?	Remember	7
8	Discuss about the CMM levels.	Remember	7
9	Define promotion.	Understand	7
10	Explain separation.	Understand	7
11	Define job evaluation.	Remember	7
12	State few lines about the transfer.	Remember	7
13	Write about the training.	Remember	7
14	Discuss about the development in the organization.	Understand	7
15	Explain what the need for training in an organization is.	Understand	7
16	List out the on the job training methods.	Remember	7
17	Write the advantages of training and development programmes.	Understand	7
18	Give the types of off the job training methods.	Understand	7
19	Discuss about the staff development strategy.	Remember	7
20	Write about four strategies of man power planning process.	Understand	7
21	What is organization culture?	Understand	7
22	List out the methods of job evolution.	Remember	7
23	State some objectives of merit rating.	Understand	7
24	List out the methods of merit rating.	Understand	7
25	Write any two advantages of job evaluation.	Understand	7

PART - B (LONG ANSWER QUESTIONS)

1	Discuss about human resource management and evaluation of human resource management.	Understand	8
2	Differentiate between the human resource management and personal management and industrial relations.	Remember	7
3	Illustrate promotion, transfer, separation and demotion.	Remember	7
4	Explain about the steps in handling a grievance.	Remember	7

5	Write about job evaluation and write the methods of job evaluation.	Remember	7
6	Explain Basic functions of Human resource Manager.	understand	8
7	Elucidate Manpower planning and write the strategies of man power plan.	understand	8
8	Explain Recruitment and selection process and write about the steps in selection process.	understand	8
9	Write about the wage and salary administration.	Remember	8
10	Explain briefly about training and development and types of training.	Remember	8
11	define the advantages the advantages of training in an organizations	Understand	8
12	What is the difference between on the job training methods and off the job methods?	Understand	8
13	Define merit rating and explain the methods of merit rating.	Understand	7
14	Explain performance appraisal and write about the steps in performance appraisal.	Understand	7
15	Briefly explain the recruitment and induction.	Remember	8
PART - C (ANALYTICAL QUESTIONS)			
1	Give the examples of the organizations which follow the performance appraisal steps sequentially?	Remember	8
2	Briefly explain the examples of latest training methods which are followed in modern organization?	Remember	8
UNIT – IV			
PROJECT MANAGEMENT (PERT/CPM)			
PART - A (SHORT ANSWER QUESTIONS)			
1	Define project.	Understand	8
2	What is activity?	Understand	9
3	Explain about the dummy activity.	Understand	9
4	Write about the normal time and crash time.	Understand	9
5	Define project crashing.	Understand	9
6	What are events?	Understand	8
7	How to calculate slack and float?	Remember	9
8	Differentiate free float.	Understand	6
9	What are the concepts of independent float?	Understand	9
10	Write about milestone chart?	Remember	7
11	Define network?	Understand	10
12	What do you mean by optimistic time estimate?	Remember	10
13	How we calculate mean by average estimate time?	Remember	10
14	Write the formula for earliest expected time?	Understand	10
15	What do you mean by negative float?	Remember	10
16	Define total float	Remember	9
17	What do you mean by normal cost and crash cost?	Understand	10
18	Elucidate a short note on project crashing.	Remember	10
19	State a formula for cost slope.	Remember	10
20	What do you mean by pessimistic time?	Understand	10
PART - B (LONG ANSWER QUESTIONS)			
1	What is meant by project management and write its importance?	Understand	9
2	Explain the difference between Project evaluation and review techniques and critical path method?	Remember	9
3	State the procedure of project crashing.	Understand	9
4	Write about the probability of completing the project within a given time?	Remember	9
5	How early techniques of project management with the help of diagram.	Remember	9
6	Explain the rules for drawing a network.	Remember	9
7	Discuss how the applications of network techniques to engineering problems.	Remember	10

8	Explain about the significance of different types of float.							Understand	9	
9	Find out the PERT, CPM and slack							Understand	9	
	Activity	1-2	2-5	1-3	1-4	3-5	4-6			5-6
	Duration	5	7	1	3	3	5			1
10	Create a network diagram and also find cpm							Remember	9	
	job	Predecessor					duration			
	A	S					8			
	B	S					2			
	C	A					6			
	D	B					4			
	E	A					8			
	F	D,E					4			
	G	B					10			
	H	C,F					4			
	I	G,H					6			

PART - C (ANALYTICAL QUESTIONS)

1	Find out the estimated ,least time and slack for the following data:							understand	10
	activity	Optimistic time	Most likely time	Pessimistic time					
	1-2	2	5	14					
	1- 6	2	5	8					
	2-3	5	11	29					
	2-4	1	4	7					
	3-5	5	11	17					
	4-5	2	5	14					
	6-7	3	9	27					
	5-8	2	2	8					
	7-8	7	13	31					
2	<p>Create a PERT network for the following project:</p> <p>A is the first event and J the end event</p> <p>J is a successor event to F</p> <p>C and D are successor events to B</p> <p>D is a f occur after predecessor event to G</p> <p>E and F occur after event C</p> <p>E precedes F</p> <p>C restrains the occurrence of G and G precedes H</p> <p>H follows F</p> <p>H precedes J</p>							understand	13
3	Create the network for the following project and number the events:							understand	8
	Event number	Preceded by	Event number	Preceded by					
	A	Star event-	G	E					
	B	A	H	G,E					
	C	B	J	D,F,H					
	D	B	K	C,J					
	E	D	L	K					
	F	B	M	J					

4	<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" data-bbox="277 279 764 735"> <thead> <tr> <th>Activity</th> <th>t_o</th> <th>t_m</th> <th>t_p</th> </tr> </thead> <tbody> <tr> <td>1-2</td> <td>2</td> <td>5</td> <td>8</td> </tr> <tr> <td>2-3</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>3-5</td> <td>0</td> <td>6</td> <td>18</td> </tr> <tr> <td>5-6</td> <td>7</td> <td>7</td> <td>7</td> </tr> <tr> <td>1-4</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>4-5</td> <td>2</td> <td>8</td> <td>14</td> </tr> </tbody> </table> <p>Find out:</p> <ol style="list-style-type: none"> 1. Calculate the values of expected time (t_e), and S.D variance($\sigma^2 (v_i)$) of each activity 2. Draw the network diagram and mark t_e on each activity 3. Calculate EST and LFT and mark them on the net work diagram 4. Calculate total slack for each activity 5. Identify the critical path and mark on the net work diagram 6. Probability of completing project in 25 days 	Activity	t_o	t_m	t_p	1-2	2	5	8	2-3	1	1	1	3-5	0	6	18	5-6	7	7	7	1-4	3	3	3	4-5	2	8	14	understand	8
Activity	t_o	t_m	t_p																												
1-2	2	5	8																												
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5-6	7	7	7																												
1-4	3	3	3																												
4-5	2	8	14																												
5	Explain about the significance of different types of float and variables.	understand	12																												

UNIT - V

STRATEGIC MANAGEMENT AND CONTEMPORARY STRATEGIC ISSUES

PART - A (SHORT ANSWER QUESTIONS)

1	Define strategic management.	Understand	11
2	Discuss about the objectives in organization.	Understand	13
3	What is mission?	Remember	11
4	Explain briefly about SWOT analysis.	Remember	12
5	How we value chain analysis?	Understand	11
6	Explain about the bench marking.	Remember	11
7	Define balanced score card?	Remember	11
8	Explain strategy.	Understand	15
9	Discuss about the environmental scanning.	Remember	11
10	Elaborate the goals in an organisation.	Understand	10
11	Elucidate about the programmes.	Remember	10
12	Discuss about the corporate planning.	Remember	11
13	What are the threats in an organisation?	Understand	11
14	Discuss about the limitations of SWOT analysis.	Remember	13
15	Write a short note on generic strategy alternatives.	Remember	11
16	Define combination strategy.	Understand	11
17	Describe about the value chain analysis.	Remember	10
18	Write a short on MRP.	Remember	11
19	Describe about the total quality management.	Understand	11
20	Define bench marking.	Remember	12
21	Discuss about the concept of balance scorecard.	Remember	11
22	Distinguish business process re engineering.	Understand	14
23	What are the benefits of balance score card?	Remember	11
24	Write about the perspectives of balance score card.	Remember	13

25	Explain about the benefits of JIT.	Understand	11
PART - B (LONG ANSWER QUESTIONS)			
1	Define Mission, Goals, Objectives, of strategic Management.	Remember	11
2	Explain Strategic Management Programmes and why the programmes are implemented in an organization.	Remember	13
3	Explain Strategic Management Policy, and how the strategies will be designed in an organization.	Remember	14
4	Discuss about the Generic Strategy alternatives.	Remember	11
5	Elucidate the Steps in Strategy Formulation and Implementation.	Understand	
6	Explain elements of corporate planning process with the help of diagram.	Remember	11
7	How companies will find out the strengths and opportunities in an organization?	Understand	12
8	Describe briefly about bench marking and benefits of it.	Remember	11
9	Explain Contemporary Management Practices in detail?	Understand	11
10	Explain about the environmental scanning.	Understand	09
11	Elaborate about the SWOT analysis significance.	Remember	11
12	Discuss about the balance score card and total quality management.	Remember	14
13	Describe about the performance management.	Remember	11
PART - C (ANALYTICAL QUESTIONS)			
1	Explain how companies will analyze the strengths and weakness with examples.	Remember	12
2	Give the examples of bench marking practices followed in the reputed organisations.	Remember	13

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