



INSTITUTE OF AERONAUTICAL ENGINEERING

(AUTONOMOUS)

Dundigal, Hyderabad - 500 043

COMPUTER SCIENCE AND ENGINEERING

TUTORIAL QUESTION BANK

Course Name	MANAGEMENT SCIENCE
Course Code	A50014
Class	IV B. Tech II Semester
Branch	Computer Science and Engineering
Year	2018 – 2019
Course Faculty	Mr. P. NAGESH, Assistant Professor, Department of MBA Ms. E. SUNITHA, Assistant Professor, 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			
PART - A (SHORT ANSWER QUESTIONS)			
1	Define functions of management.	Remember	1
2	Discuss the importance of management.	Understand	1
3	Define leadership and name the leader ship styles.	Remember	1
4	Describe the advantages of departmentation.	Understand	1
5	Define about types of organization.	Understand	1
6	Describe nature of management.	Understand	1
7	Give two examples of modern organization.	Understand	1
8	Discuss about the responsibilities of management.	Understand	1
9	Define the concepts related to organization.	Understand	2
10	Discuss about the centralization in an organization.	Understand	2
11	Write about autocratic leadership style.	Remember	2
12	List out Henry fayol's. 14 principles of management.	Remember	2
13	Describe about the committee organization structure.	Remember	2
14	Give the structure of organization.	Remember	2
15	Discuss about the importance of approaches of management.	Understand	2
16	Define about the concept of Mc Gregor theory X in motivation.	Understand	2
17	Define lower level of management.	Understand	2
18	Write a short note on Mc Gregor theory Y in motivation.	Understand	2

S. No	Questions	Blooms Taxonomy Level	Course Outcome
19	Define decentralization.	Remember	2
20	Write the merits of matrix organization.	Remember	2
21	Define line and staff organisation.	Remember	2
22	Write a short note on span of management.	Remember	2
23	What do you mean by delegation of authority?	Understand	2
24	Write the relationship between management and organization.	Understand	2
25	Define authority and responsibility.	Remember	2
PART - B (LONG ANSWER QUESTIONS)			
1	Explain employees' behaviours and attitudes according to McGregor's theory X and theory Y of motivation.	Understand	1
2	Discuss the relation between Herzberg two factor theory of motivation.	Understand	1
3	Explain Maslow's hierarchy needs theory with examples.	Understand	1
4	Distinguish between centralization and decentralization along with advantages and disadvantages.	Remember	2
5	Write about the different types of organizations based on authority relationships.	Understand	2
6	Discuss briefly about the systems approach and modern approach to management.	Understand	2
7	"Is authority and responsibility interrelated" Explain.		2
8	Define organization structure. Describe about the principals of organizations.	Remember	2
9	Define management. Write the scope and importance of management.	Remember	2
10	Write in detail about the functions of management.	Understand	2
11	Explain different types of organizations structures with examples.		2
12	Define leadership and describe the different types of leadership styles.	Remember	2
13	Write about the Henry Fayol principles of management.	Understand	3
14	Describe briefly about the social responsibility of the management.	Understand	2
15	Write 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	Discuss the relation between Herzberg two factor theory of motivation and Maslow's needs theory	Understand	2
4	Explain the real-life example of a leader and what is the role played in an organization?	Remember	3
5	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
UNIT – II			
PART - A (SHORT ANSWER QUESTIONS)			
1	Write about the job production.	Understand	4
2	Define the term TQM.	Remember	4
3	Describe about the method study.	Understand	4
4	Discuss JIT system.	Remember	5
5	Write about the Economic Order Quantity.	Remember	5
6	Write the formula for C chart.	Remember	5
7	Define the acceptance sampling.	Remember	5
8	Write about the batch production.	Understand	5
9	Write any two objectives of inventory control.	Understand	5

S. No	Questions	Blooms Taxonomy Level	Course Outcome
10	List out the methods of production.	Remember	5
11	Define quality.	Remember	5
12	Define inventory control.	Remember	5
13	Write the benefits of JIT system.	Understand	5
14	Define economic order quantity.	Remember	5
15	Write a short note on ABC analysis.	Understand	5
16	Define business process reengineering.	Remember	6
17	Write about the six sigma.	Understand	6
18	Discuss about the store management and store record.	Understand	6
19	Define work study in operations management.	Remember	6
20	Define marketing.	Remember	6
21	Discuss about the maturity level in Product Life Cycle.	Understand	6
22	Write about the marketing mix.	Understand	6
23	Discuss Statistical Quality Control.	Remember	6
24	Define supply chain management.	Remember	6
25	Discuss mass production.	Remember	6
PART - B (LONG ANSWER QUESTIONS)			
1	Discuss plant layout and methods of production with the help of neat diagram with examples.	Remember	4
2	Describe 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	Discuss the 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?	Evaluate	5
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.	Understand	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	6
10	Explain Stores Management how is it useful in organization.	Understand	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.	Understand	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?	Understand	6
PART - C (ANALYTICAL QUESTIONS)			
1	The following information is about the shock observers used by an automobile workshop: Annual demand: 4800 units Unit price: Rs 300 Cost of placing an order : Rs 50 Storage cost : 3% PA Interest rate: 15% PA	Analyse	6

	Calculate EOQ and also and find the number of orders to be placed?																																									
S. No	Questions										Blooms Taxonomy Level	Course Outcome																														
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?										Analyse	6																														
3	The following data represents the number of defects found each sewing machine cabinet inspected plot a control chart with control limits <table border="1"><tr><td>S.NO</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><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></table>										S.NO	1	2	3	4	5	6	7	No of defects	8	10	7	9	6	7	8	Analyse	6														
S.NO	1	2	3	4	5	6	7																																			
No of defects	8	10	7	9	6	7	8																																			
4	Construct X and R charts for the following information <table border="1"><tr><td>Sample</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr><tr><td>X</td><td>20</td><td>34</td><td>45</td><td>39</td><td>26</td><td>29</td><td>13</td><td>34</td><td>37</td></tr><tr><td>R</td><td>23</td><td>39</td><td>14</td><td>5</td><td>20</td><td>17</td><td>21</td><td>11</td><td>40</td></tr></table>										Sample	1	2	3	4	5	6	7	8	9	X	20	34	45	39	26	29	13	34	37	R	23	39	14	5	20	17	21	11	40	Analyse	6
Sample	1	2	3	4	5	6	7	8	9																																	
X	20	34	45	39	26	29	13	34	37																																	
R	23	39	14	5	20	17	21	11	40																																	
UNIT – III																																										
PART A (SHORT ANSWER QUESTIONS)																																										
CIE - I																																										
1	Define human resource management.										Remember	5																														
2	Discuss about the performance appraisal.										Remember	5																														
3	What is man power planning.										Understand	5																														
4	Write about the recruitment process.										Understand	6																														
5	Define PMIR.										Remember	6																														
6	Write about on-job training.										Remember	6																														
7	Write about the merit rating.										Understand	6																														
8	Discuss about the CMM levels.										Understand	6																														
9	Discuss about the promotion.										Understand	7																														
10	Define separation.										Understand	7																														
11	Define about job evaluation.										Remember	7																														
12	Write about the transfer.										Remember	7																														
CIE - II																																										
13	Write about the training.										Understand	7																														
14	Discuss about the development in the organization.										Understand	7																														
15	Define what is the need for training in an organization.										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	Write about the organization culture.										Understand	8																														
22	List out the methods of job evolution.										Remember	8																														
23	Write about the objectives of merit rating.										Understand	8																														
24	List out the methods of merit rating.										Understand	8																														
25	Write any two advantages of job evaluation.										Understand	8																														
PART - B (LONG ANSWER QUESTIONS)																																										
CIE - I																																										
1	Discuss about human resource management and evaluation of human resource										Understand	8																														

	management.		
2	Differentiate between the human resource management and personal management and industrial relations.	Remember	8
3	Discuss promotion, transfer, separation and demotion.	Understand	8
4	Discuss about the steps in handling a grievance.	Understand	8
5	Describe the methods of job evaluation.	Remember	8
6	Define human resource management. Explain the functions of human resource Manager.	Understand	8
7	What do you mean by manpower planning and write the strategies of manpower plan.	Remember	8
	CIE - II		8
8	Define Recruitment and selection process and write about the steps in selection process.	Remember	8
9	Discuss about the wage and salary administration.	Understand	8
10	Define briefly about training and development and types of training.	Remember	8
11	Write the advantages the advantages of training in an organization	Understand	8
12	Write 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	8
14	Explain performance appraisal and write about the steps in performance appraisal.	Understand	8
15	Briefly explain the recruitment and induction.	Remember	8
PART - C (ANALYTICAL QUESTIONS)			
CIE - I			
1	Give the examples of the organizations which follow the performance appraisal steps sequentially?	Understand	8
	CIE - I		
2	Give the examples of latest training methods which are followed in modern organization?	Remember	8
UNIT – IV			
PART - A (SHORT ANSWER QUESTIONS)			
1	Define project.	Understand	9
2	Describe activity.	Understand	9
3	Write about the dummy activity.	Understand	9
4	Discuss about the normal time and crash time.	Understand	9
5	Define project crashing.	Understand	9
6	Define events.	Understand	9
7	How to calculate slack and float?	Remember	9
8	Discuss free float.	Understand	10
9	Define the concept of independent float?	Understand	10
10	Write about milestone chart?	Remember	10
11	Define network?	Understand	10
12	What do you mean by optimistic time estimate?	Remember	10
13	Discuss about the average estimate time?	Understand	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	Understand	10
17	What do you mean by normal cost and crash cost?	Understand	10
18	Define short note on project crashing.	Remember	11
19	Write a formula for cost slope.	Remember	11
20	What do you mean by pessimistic time?	Understand	11

PART - B (LONG ANSWER QUESTIONS)										
1	What is meant by project management and write its importance?							Understand	11	
2	What is the difference between Project evaluation and review techniques and critical path method?							Remember	11	
3	Write about the procedure of project crashing.							Understand	11	
4	Describe about the probability of completing the project within a given time?							Remember	11	
5	Write about the early techniques of project management with the help of diagram.							Understand	11	
6	Explain the rules for drawing a network.							Remember	11	
7	Discuss how the applications of network techniques to engineering problems.							Understand	12	
8	Explain about the significance of different types of float.							Understand	12	
9	Find out the PERT, CPM , slack							Remember	12	
	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	12	
	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:							Remember	12	
	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	Create a PERT network for the following project: A is the first event and J the end event J is a successor event to F C and D are successor events to B D is a f occur after predecessor event to G E and F occur after event C E precedes F C restrains the occurrence of G and G precedes H H follows F H precedes J							Remember	12	
3	Create the network for the following project and number the events:							Remember	12	
	Event number	Preceded by	Event number	Preceded by						

	<table><tr><td>A</td><td>Star event-</td><td>G</td><td>E</td></tr><tr><td>B</td><td>A</td><td>H</td><td>G, E</td></tr><tr><td>C</td><td>B</td><td>J</td><td>D, F,H</td></tr><tr><td>D</td><td>B</td><td>K</td><td>C,J</td></tr><tr><td>E</td><td>D</td><td>L</td><td>K</td></tr><tr><td>F</td><td>B</td><td>M</td><td>J</td></tr></table>	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						
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><tr><td>Activity</td><td>t_o</td><td>t_m</td><td>t_p</td></tr><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></table> <p><u>Find out:</u></p> <ol style="list-style-type: none">1. Calculate the values of expected time (t_e), and S.D variance(σ) (v_i) of each activity2. Draw the network diagram and mark t_e on each activity3. Calculate EST and LFT and mark them on the net work diagram4. Calculate total slack for each activity5. Identify the critical path and mark on the net work diagram6. 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	Remember	12
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																												

UNIT – V

PART - A (SHORT ANSWER QUESTIONS)

1	Define strategic management.	Understand	12
2	Discuss about the objectives in organization.	Understand	12
3	Define mission.	Remember	12
4	Discuss briefly about SWOT analysis.	Understand	12
5	Define value chain analysis?	Understand	12
6	Define about the bench marking.	Remember	12
7	Define balanced score card?	Remember	12
8	Define strategy.	Understand	12
9	Discuss about the environmental scanning.	Remember	13
10	Write about the goals in an organisation.	Understand	13
11	Write about the programmes.	Remember	13
12	Discuss about the corporate planning.	Understand	13
13	Write about the threats in an organisation.	Understand	13
14	Discuss about the limitations of SWOT analysis.	Understand	13
15	Write a short note on generic strategy alternatives.	Remember	13
16	Define combination strategy.	Understand	13
17	Describe about the value chain analysis.	Remember	13

18	Write a short on MRP.	Remember	13
19	Describe about the total quality management.	Understand	13
20	Define bench marking.	Understand	13
21	Discuss about the concept of balance scorecard.	Remember	13
22	Define business process re engineering.	Understand	13
23	Write the benefits of balance score card.	Remember	13
24	Write about the perspectives of balance score card.	Understand	13
25	Define about the benefits of JIT.	Understand	13
PART - B (LONG ANSWER QUESTIONS)			
1	Define Mission, Goals, Objectives, of strategic Management.	Remember	12
2	Explain Strategic Management Programmes and why the programmes are implemented in an organization.	Remember	12
3	Explain Strategic Management Policy, and how the strategies will be designed in an organization.	Understand	12
4	Discuss about the Generic Strategy alternatives.	Remember	12
5	Explain Steps in Strategy Formulation and Implementation.	Understand	13
6	Describe the elements of corporate planning process with the help of diagram.	Remember	13
7	How companies will find out the strengths and opportunities in an organization?	Understand	13
8	Describe briefly about bench marking and benefits of it.	Understand	13
9	Explain Contemporary Management Practices in detail?	Understand	14
10	Discuss about the environmental scanning.	Understand	14
11	Explain about the SWOT analysis significance.	Remember	14
12	Discuss about the balance score card and total quality management.	Remember	15
13	Describe about the performance management.	Understand	15
PART - C (ANALYTICAL QUESTIONS)			
1	Explain how companies will analyse the strengths and weakness with examples.	Remember	14
2	Give the examples of bench marking practices followed in the reputed organisations.	Remember	15

Prepared by: Mr. P NAGESH, Assistant Professor, Department of MBA
Ms. E Sunitha, Assistant Professor, Department of MBA

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