



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

DEPARTMENT OF AERONAUTICAL ENGINEERING

QUESTION BANK

| | | |
|----------------|---|---------------------------------|
| Course Name | : | MANAGEMENT SCIENCE |
| Course Code | : | A50014 |
| Class | : | III B. Tech I Semester |
| Branch | : | Aeronautical Engineering |
| Year | : | 2017– 2018 |
| Course Faculty | : | B. TEJASWI, Assistant Professor |

OBJECTIVES

Management Science is introduced to students with a specific purpose of providing them a better orientation of management, organizational structures, operations management, materials and marketing management, Human resource management, project management, strategic management and new management practices. This subject shows how to do thing in every sphere of activity including industry and academics.

| UNIT - I INTRODUCTION TO MANAGEMENT AND ORGANIZATION | | | |
|---|---|--------------------------|-------------------|
| Part - A (Short Answer Questions) | | | |
| S. No | Questions | Blooms Taxonomy Level | Course Outcome |
| 1 | Define management? | Understand | 1 |
| 2 | Discuss the importance of management? | Understand | 1 |
| 3 | Write about the leader ship styles? | Apply | 1 |
| 4 | Write the advantages of departmentation? | Understand | 1 |
| 5 | Explain about types of organization? | Understand | 1 |
| 6 | Describe nature of management? | Remember | 1 |
| 7 | Give two examples of modern organization? | Apply | 1 |
| 8 | Discuss about the responsibilities of management? | Apply | 1 |
| 9 | Give the structure of organization? | Apply | 2 |
| 10 | Discuss about the importance of approaches of management? | Understand | 2 |
| 11 | Explain the concepts related to organization?. | Apply | 1 |
| 12 | Discuss about the centralization in an organization? | Apply | 1 |
| 13 | Write about autocratic leadership style? | Apply | 1 |
| 14 | Explain about the concept of theory X? | Understand | 2 |
| 15 | Explain about the lower level of management? | Understand | 2 |
| Part - B (Long Answer Questions) | | | |
| S. No | Questions | Blooms Taxonomy Level | Course Outcome |
| 1 | Explain Douglas McGregor's theory x and theory Y? | Remember | 1 |

| | | | |
|----|--|------------|---|
| 2 | Explain Hertzberg two factor theory of motivation leadership styles social responsibilities of management? | Understand | 1 |
| 3 | Explain evolution of management thought or theory of management which is universally applicable? Give your reasons? | Evaluate | 1 |
| 4 | Distinguish between centralization and decentralization? | Understand | 1 |
| 5 | Explain basic concepts related to organization departmentation and decentralization? | Remember | 1 |
| 6 | Discuss briefly about the systems approach to management? | Understand | 1 |
| 7 | Good organization design is a function of a number of factors including the environment, technology, size of the company and the philosophy of the central management. | Understand | 2 |
| 8 | Explain types and evaluation of mechanistic and organic structures of organization and suitability design? | Understand | 2 |
| 9 | What is the contribution of Henry Fayol to the management process? Are his administrative principles strictly enforceable in the current? | Evaluate | 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? | Evaluate | 3 |

Part - C (Problem solving & Analytical Questions)

| S. No | Questions | Blooms Taxonomy Level | Course Outcome |
|-------|--|-----------------------|----------------|
| 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? | Analyze | 2 |
| 4 | Discuss about sustainability of an organization and how runs in the society. | evaluate | 3 |

**UNIT - II
OPERATIONS AND MARKETING MANAGMENT**

Part - A (Short Answer Questions-2marks)

| S. No | Questions | Blooms Taxonomy Level | Course Outcome |
|-------|--|-----------------------|----------------|
| 1 | Write about the job production? | Understand | 4 |
| 2 | Define the term TQM? | Understand | 4 |
| 3 | Describe about the method study? | Understand | 4 |
| 4 | Define JIT system? | Understand | 4 |
| 5 | Define economic order quantity? | Understand | 5 |
| 6 | Write about the ABC analysis? | Analyze | 5 |
| 7 | Write about the business process reengineering? | Analyze | 5 |
| 8 | Write about the six sigma? | Analyze | 6 |
| 9 | Discuss about the stores management and stores record? | Apply | 6 |
| 10 | Define work study in detail? | Understand | 6 |
| 11 | Define SQC? | Understand | 6 |
| 12 | Define marketing? | Understand | 6 |
| 13 | Write about the maturity level in PLC? | Understand | 6 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------|----|----|----|----|----|---|---|----------------|----|----|----|----|----|----|----|-------|----|----|----|---|----|----|----|----------|---|
| 14 | Write about the marketing mix? | Analyze | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Define supply chain management? | Evaluate | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | Define mass production? | Understand | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| Part - B (Long Answer Questions) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Discuss plant layout and methods of production with the help of neat diagram with examples. | Evaluate | 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? | Evaluate | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | What is work-study basic procedure involved in method study and work measurement? | Evaluate | 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? | Analyze | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | What are the marketing strategies based on Product life cycle and discuss each stage and importance in an organization? | Analyze | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Discuss channels of distribution? | Understand | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Explain Stores Management how is it useful in organization? | Evaluate | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | What are the functions of marketing and discuss briefly about the marketing mix? | Evaluate | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Define about the quality? Write about Deming's contribution to quality? | Apply | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| Part - C (Problem solving &Analytical Questions) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 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? | Apply | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | How the marketing is different from selling? Explain how marketing starts and ends with the customer? | Evaluate | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Explain the objectives of purchasing function? how do you organize the purchasing department? | Apply | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | The following information is about the shock observers used by an automobile workshop | Apply | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 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? | Evaluate | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | The following data represents the number of defects found an 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 | Apply | 6 | | | | | | | | |
| S.NO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | | | | | | | |
| No. of defects | 8 | 10 | 7 | 9 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | |
| 7 | 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></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></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></tr></table> | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | X | 20 | 34 | 45 | 39 | 26 | 29 | 13 | R | 23 | 39 | 14 | 5 | 20 | 17 | 21 | Evaluate | 6 |
| sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | | | | | | | |
| X | 20 | 34 | 45 | 39 | 26 | 29 | 13 | | | | | | | | | | | | | | | | | | | | |
| R | 23 | 39 | 14 | 5 | 20 | 17 | 21 | | | | | | | | | | | | | | | | | | | | |
| UNIT-III HUMAN RESOURCE MANAGEMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Part - A (Short Answer Questions) | | | |
|--|---|------------------------------|-----------------------|
| S. No | Questions | Blooms Taxonomy Level | Course Outcome |
| 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? | Analyze | 7 |
| 6 | Write about on-job training? | Analyze | 7 |
| 7 | Write about the merit rating? | Understand | 7 |
| 8 | Discuss about the CMM levels? | Understand | 7 |
| 9 | Discuss about the promotion and transfer? | analyze | 8 |
| 10 | Explain separation? | understand | 6 |
| 11 | Define about job evaluation? | remember | 7 |
| Part - B (Long Answer Questions) | | | |
| 1 | Discuss about Human Resources Management and evaluation of human resource management | Understand | 8 |
| 2 | Differentiate between the human resource management and personal management and industrial relations | Analyze | 7 |
| 3 | Discuss promotion, transfer, separation, performance appraisal. And write about the steps in performance appraisal | Analyze | 7 |
| 4 | Distinguish grievance handling and welfare administration and how the grievance handling is done in an organization | Evaluate | 7 |
| 5 | Explain about job evaluation and merit rating capability maturity model levels and Performance management system | Evaluate | 7 |
| 6 | Explain Basic functions of Human resource Manager | Evaluate | 8 |
| 7 | Explain Manpower planning and how the management analyze the planning in the organization | Evaluate | 8 |
| 8 | Explain Recruitment and selection process and write about the steps in selection process? | Apply | 8 |
| 9 | Explain about the wage and salary administration? | Apply | 8 |
| 10 | Explain briefly about training and development and types of training? | Evaluate | 8 |
| 11 | Write the advantages the advantages of training in an organizations | Understand | 8 |
| 12 | Write the difference between on the job training methods and off the job methods? | Understand | 8 |
| Part - C (Problem solving & Analytical Questions) | | | |
| 1 | Give the examples of the organizations which follow the performance appraisal steps sequentially? | Apply | 8 |
| 2 | Give the examples of latest training methods which are followed in modern organization? | Apply | 8 |
| UNIT - IV PROJECT MANAGEMENT | | | |
| Part -A (Short Answer Questions) | | | |
| 1 | Define project? | Understand | 9 |
| 2 | Define activity? | Understand | 9 |
| 3 | Explain about the dummy activity? | Understand | 9 |
| 4 | Explain 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? | Analyze | 9 |
| 8 | Define free float? | Understand | 9 |
| 9 | Define the concept of independent float? | Understand | 9 |
| 10 | Write about milestone chart? | Analyze | 9 |
| 11 | Define network? | Understand | 10 |
| 12 | What do you mean by optimistic time estimate? | Analyze | 10 |
| 13 | What do you mean by average estimate time? | Evaluate | 10 |
| 14 | Write the formula for earliest expected time? | Understand | 10 |
| 15 | What do you mean by negative float? | Evaluate | 10 |
| Part - B (Long Answer Questions) | | | |
| 1 | What is meant by project management and write its importance? | Understand | 9 |
| 2 | What is the difference between Project evaluation and review techniques and critical path method? | Analyze | 9 |
| 3 | Write about the procedure of project crashing | Understand | 9 |
| 4 | Write about the probability of completing the project within a given time? | Apply | 9 |
| 5 | Write about the early techniques of project management with the help of diagram? | Apply | 9 |
| 6 | Explain the rules for drawing a network? | Evaluate | 9 |
| 7 | Discuss about the applications of network techniques to engineering problems? | Evaluate | 10 |
| 8 | Explain about the significance of different types of float? | Understand | 9 |
| Part - C (Problem solving &Analytical Questions) | | | |
| 1 | 1. Draw the network from the following information Events number Predecessor A 1-2 B 1-3 C 1-4 D 2-5 E 3-5 F 4-6 G 5-6 | Analyze | 10 |
| 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 | Evaluate | 9 |

| | | | | | | |
|---|--|--------------------------------------|--|------------------------------------|------------|----|
| 3 | Create the network for the following project and number the events | | | | Analyze | 8 |
| | Event number | Preceded by | Event number | Preceded by | | |
| | A B C D E F | Star event- A B B D B | G H J K L M | E G,E D,F,H C,J K J | | |
| 4 | Create the network from the following information Events number Predecessor A 1-2 B 1-3 C 1-4 D 2-5 E 3-5 F 4-6 G 5-6 Find out the PERT,CPM, EST, LFT and SLACK? | | | | Understand | 10 |
| 5 | 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 | | | | Understand | 8 |
| 6 | Create the network for the following project and number the events | | | | Analyze | 10 |
| | Event number | Preceded by | Event number | Preceded by | | |
| | A B C D E F | Star event- A B B D B | G H J K L M | E G,E D,F,H C,J K J | | |

| | | | |
|---|--|------------|----|
| 7 | Create the network from the following information Events number Predecessor A 1-2 B 1-3 C 1-4 D 2-5 E 3-5 F 4-6 G 5-6 Find out the PERT, CPM, EST, LFT and SLACK? | Apply | 9 |
| 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 | 11 |
| 3 | Define mission and goals? | Apply | 11 |
| 4 | Discuss briefly about SWOT analysis? | Analyze | 11 |
| 5 | Define value chain analysis? | Understand | 11 |
| 6 | Explain about the bench marking? | Evaluate | 11 |
| 7 | Define balanced score card? | Analyze | 11 |
| 8 | Define strategy? | Understand | 11 |
| 9 | Discuss about the environmental scanning | Apply | 11 |
| Part - B (Long Answer Questions) | | | |
| 1 | Explain Mission, Goals, objectives, of strategic Management? | Analyze | 11 |
| 2 | Explain Strategic Management Programmes and why the programmes are implemented in an organization? | Evaluate | 11 |
| 3 | Explain Strategic Management Policy, and how the strategies will be designed in an organization? | Analyze | 11 |
| 4 | Explain Generic Strategy alternatives? | Apply | 11 |
| 5 | Explain Steps in Strategy Formulation and Implementation? | Understand | 11 |
| 6 | Explain Elements of Corporate Planning Process with the help of diagram? | Evaluate | 11 |
| 7 | How companies will find out the strengths and opportunities in an organization? | Understand | 11 |
| 8 | Explain the bench marking and its types and write about balance score card? | Analyze | 11 |
| 9 | Explain Contemporary Management Practices in detail? | Understand | 11 |
| 10 | Explain about the Environmental Scanning? | Understand | 11 |
| Part - C (Problem solving & Analytical Questions) | | | |
| 1 | Explain how companies will analyze the strengths and weakness with examples | Analyze | 11 |
| 2 | Give the examples of bench marking practices followed in the reputed organizations? | Apply | 11 |

Prepared by: B.TEJASWI

HOD, AE