Code No: V3208 **R07** **Set No: 1**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

MANAGEMENT SCIENCE

(Common to Electrical and Electronics Engineering & Electronics and Communications Engineering & Chemical Engineering & Electronics and Computer Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. (a) Define Management? Explain the significance of Management.
   (b) Briefly Explain Taylor's Scientific Management Theory.

2. What is Decentralization? Where is it suitable? Enumerate its advantages and disadvantages.

3. (a) What do you mean by production? Write about different types of Production Methods.
   (b) Explain the procedure in construction of 'R' Chart.

4. (a) What are the Major Functions of HR Manager?
   (b) Briefly Explain Induction.

5. Explain the Importance of Techniques of both CPM and PERT?

6. (a) Define Strategy? How Strategy is Managed?
   (b) Briefly Explain SWOT Analysis.

7. Explain the role of Management Information
   (a) Systems in Modern Organizations.
   (b) Explain Different types of Markets.

8. Write Short Notes on
   (i) Total Float
   (ii) Free Float
   (iii) Project Crashing
   (iv) Time Estimates

*****

Code No: V3208 **R07** **Set No: 2**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

MANAGEMENT SCIENCE

(Common to Electrical and Electronics Engineering & Electronics and Communications Engineering & Chemical Engineering & Electronics and Computer Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. (a) What are the Basic Functions of Management?
   (b) Explain Fayol's Principles of Management.

2. (a) What are the features of Organization? Explain Its Importance and Significance.
   (b) Explain Virtual Organization.

3. What are the types of Layout? Explain them with examples.

4. (a) What do you mean by ABC analysis? What are its advantages?
   (b) Briefly Explain the Steps in Purchase Procedure.

5. What are the main differences between HRM and Personal Management and Industrial Relations?

6. (a) Define "Project"? Explain different phases of Project Management.
   (b) Briefly explain Management by Objectives.

7. (a) What are the steps in Strategy Formulation and Implementation?
   (b)What are the elements of Corporate Planning?

8. Write Short Notes on
   (i) Just in Time
   (ii) Balanced Score Card
   (iii) Enterprise Resource Planning
   (iv) Business Process Outsourcing

*****

Code No: V3208 **R07** **Set No: 3**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

MANAGEMENT SCIENCE

(Common to Electrical and Electronics Engineering & Electronics and Communications Engineering & Chemical Engineering & Electronics and Computer Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. (a) What are the Important Leadership Styles that are being Practice by Managers?
   (b) Explain Systems Approach to Management.

2. (a)Briefly explain Line and Staff Organization, what are the advantages and disadvantages?
   (b) Explain Span of Management and Importance.

3. Differentiate between Formal and Informal Organization.

4. What are the Generic Strategies that are adopted by organizations?

5. What is Bench Marketing? Explain various types of Bench Marketing?

6. (a) Explain Manpower Planning. Explain the different steps in Manpower Planning?
   (b) Explain Job Evaluation.

7. (a) Write difference between Job Production and Batch Production.
   (b) Explain Acceptance Sampling

8. Write notes on
   (i) Inventory Control.
   (ii) Stores Management.
   (iii) Vendor Rating.
   (iv) How to Classify Materials.

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Code No: V3208 **R07** **Set No: 4**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

MANAGEMENT SCIENCE

(Common to Electrical and Electronics Engineering & Electronics and Communications Engineering & Chemical Engineerging & Electronics and Computer Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. (a) What are the Social Responsibilities of Management?
   (b) Briefly explain Contingency Approach to Management.

2. State the different forms of Organization Structure? Discuss the features, benefits and limitations?

3. (a) What do you mean by Statistical Quality Control? Explain its importance in Quality Control.
   (b) Explain the procedure in Construction of 'C' Chart and 'P' Chart.

4. (a) Explain the objectives of Materials Management.
   (b) What is Economic Order Quality (EOQ)? How it is Determined?

5. (a) What are the Major Issues involved in Wage and Salary Administration?
   (b) Briefly explain importance of Human Resource Management.

6. How Materials Requirement planning helps in Managing Production and Operations in Organizations?

7. Define Marketing Management? Explain the Changing Nature of Marketing.

8. Explain
   (i) Bin Card
   (ii) Re-Order Point
   (iii) Selective Inventory Control Techniques
   (iv) BCG Matrix

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Code No: V3211 **R07** **Set No: 1**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

INDUSTRIAL MANAGEMENT

(Mechanical Engineering and Automobile Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1 (a) Describe the principles of Taylor's scientific management.
(b) Briefly describe the contributions of Henri Fayol's to the scientific management. [8+8]

2 (a) Define organizational conflict? Explain different stages of conflict?
(b) With a neat flow chart explain the organizational structure. [8+8]

3 (a) Briefly describe the factors governing plat location.
(b) Differentiate between product layout and process layout. [8+8]

4 (a) Define performance rating and explain various rating techniques.
(b) Explain the steps involved in the synthesis of work study data. [8+8]

5 (a) Briefly describe ABC analysis.
(b) Define economic order quality and derive an equation for it. [8+8]

6 (a) Differentiate between PERT and CPM.
(b) Define and explain the terms: slack time, free float and independent float used in network analysis. [6+10]

7 (a) Define sampling and explain single sampling and double sampling plans.
(b) Explain the characteristics of ISO 9000 quality system. [8+8]

8 (a) What are incentives? How such incentives are helpful in production.
(b) Describe the various methods of wage payment. [8+8]

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Code No: V3211 **R07** **Set No: 2**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

INDUSTRIAL MANAGEMENT

(Mechanical Engineering and Automobile Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1 (a) Describe the contributions of Taylor and Mayo in the growth of Management science.
(b) Write short notes on Systems approach to management. [8+8]

2 (a) Differentiate between departmentation and decentralization.
(b) With a neat flow chart explain the structure and characteristics of matrix organization? [8+8]

3 (a) What do you understand by 'plant design'? Describe the various factors to be considered in deciding the location of a plant.
(b) What are the various types of plant layouts? Explain their relative advantages. [8+8]

4 (a) Briefly describe the objectives of method study.
(b) Work sampling study was conducted for 100 hours in the machine shop in order to estimate the standard time. The total number of observations recorded were2500. No working activity could be noticed for 400 observations. The ratio between manual and machine elements was 2:1. Average rating factor was estimated as 1.15 and the total number of articles produced during the study period was 6000. Rest and personal allowances may be taken as 12% of the normal time. [7+9]

5 (a) Differentiate between loading and scheduling.
(b) Describe the concept and utility of ABC analysis as applied to inventory control. [8+8]

6 A small project consists the following activities with the given time estimates: (16)

Predecessor event-Successor event(i-j)	Estimated duration (in months)		
	Optimistic	Most likely	Pessimistic
1-2	2	2	14
1-3	2	8	14
1-4	4	4	16
2-5	2	2	2
3-5	4	10	28
4-6	4	10	16
5-6	6	12	30

(a) Draw the network diagram
(b) Calculate the average expected time for each activity
(c) Calculate the earliest expected time and the latest allowable occurrence time or each event
(d) Determine the critical path considering the project completion time of 36 months

7 (a) Describe the functions of routing, scheduling and dispatching.
(b) Explain the factors determining the sample size. [8+8]

8 (a) 'Incentives are necessary for smooth and efficient running of a factory'. Justify?
(b) Descriptive various wage incentive schemes? [8+8]

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Code No: V3211 **R07** **Set No: 3**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

INDUSTRIAL MANAGEMENT

(Mechanical Engineering and Automobile Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1 (a) Explain the process of management as applied to an industry. Briefly describe some of its characteristics.
(b) Briefly describe the Douglas Mc-Gregor's theory of management. [8+8]

2 (a) With a flow chart explain the important functions and characteristics of committee organization.
(b) Enumerate the merits and demerits of line and staff organization. [8+8]

3 (a) Give the advantages and disadvantages of process layout.
(b) With an example explain the way of improving the existing plant layout using travel chart. [8+8]

4 (a) Explain the method study procedure.
(b) What are the various allowances considered in time study? Explain. [8+8]

5 (a) Give the advantages of integrated materials management.
(b) Describe the basic components of an inventory system. Explain how the inventories serve to reduce the cost and to increase the cost? [8+8]

6 (a) Explain the assumption underlying PERT and CPM network models applied in project management?
(b) Explain how the work study concepts can be utilized to improve productivity? [8+8]

7 (a) Name different methods of pricing the issues of inventory and explain the FIFO method with an example.
(b) Describe the general structure of double sampling plan. What are its advantages and disadvantages? [8+8]

8 (a) Define and explain product life cycle.
(b) Give the important functions of Human resources management. [8+8]

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Code No: V3211 **R07** **Set No: 4**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

INDUSTRIAL MANAGEMENT

(Mechanical Engineering and Automobile Engineering)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1 (a) Give the importance of organization.
(b) Explain the merits and demerits of functional organization. [8+8]

2 (a) Differentiate between organizational development and management development.
(b) Explain the factors affecting plant location. [8+8]

3 (a) Give the advantages and disadvantages of process layout.
(b) With an example explain the way of improving the existing plant layout using travel chart. [8+8]

4 (a) What is the difference between method study and work measurement? State the objectives of each.
(b) Write short notes on work sampling. [8+8]

5 (a) A biscuit manufacturing company buys a lot of 10,000 bags of wheat per annum. The cost per bag is Rs 500 and the ordering cost is Rs 400. The inventory carrying cost is estimated at 10 percent of the price of the wheat. Determine economic order quantity.
(b) Briefly describe the duties of purchase manager. [8+8]

6 (a) Give the advantages of integrated materials management.
(b) Briefly explain the steps involved in the critical path method. [8+8]

7 (a) Describe different types of intensive schemes.
(b) Describe the various methods of wage payment. [8+8]

8 (a) Describe different methods of merit rating.
(b) Differentiate between marketing and selling. [8+8]

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Code No: V3227 **R07** **Set No: 1**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

OBJECT ORIENTED ANALYSIS AND DESIGN

(Computer Science and Engineering & Information Technology)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. a) Describe about interlocking views of software intensive system.
   b) Discuss in detail about the common mechanisms that are applied consistently throughout the UML language.

2. a) Explain in detail about modeling the vocabulary of a system with class diagrams.
   b) Enumerate the steps to model a system at different levels of abstraction in detail.

3. a) Explain about the steps to forward engineer a class diagram in UML.
   b) Describe about modeling object structures in detail.

4. a) Describe about modeling several kinds of actions in UML with an example.
   b) Explain about common uses of interaction diagrams in detail.

5. a) Explain about object flow for processing an order by an activity diagram.
   b) Define use case. Explain about usage of use case diagram to model the requirements of a system.

6. a) What is an event? Describe how to model different kinds of events in UML.
   b) Explain about how to model timing constraints in detail.

7. a) Discuss in detail about the modeling an Client/Server system.
   b) Explain about the modeling a source code in Unified Modeling Language.

8. a) Give the activity diagram for issuing of books from library system.
   b) Describe about Collaboration diagram for the add Title use case in unified library application.

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Code No: V3227 **R07** **Set No: 2**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

OBJECT ORIENTED ANALYSIS AND DESIGN

(Computer Science and Engineering & Information Technology)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. a) Discuss in detail about the importance of modeling and about the principles of modeling.
   b) Define UML. Why for UML is used for? Explain in detail.

2. a) Define package and discuss about importing and exporting with an example.
   b) Explain about modeling simple dependencies and about modeling single inheritance.

3. a) Describe about how each class diagram should focus on one collaboration at a time in detail Unified Modeling Language.
   b) Discuss about forward and reverse engineering an object diagram.

4. a) Explain about modeling a flow of control that characterizes the behavior of system.
   b) Describe in detail about collaboration diagrams and discuss about features that distinguish collaboration from sequence diagrams.

5. a) Explain about modeling a workflow using activity diagrams.
   b) Discuss in detail about auction system with use case diagram.

6. a) Describe about modeling families of signals and explain it for an autonomous robot.
   b) Explain about how to model a reactive object in detail.

7. a) Describe different kinds of components and about organizing components in detail.
   b) Delineate about modeling processors and devices in detail.

8. a) Describe in detail with sequence diagram for lending an item in unified library application.
   b) Draw the class diagram for the library management system.

*****

Code No: V3227 **R07** **Set No: 3**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

OBJECT ORIENTED ANALYSIS AND DESIGN

(Computer Science and Engineering & Information Technology)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. a) Explain in detail about the conceptual model of UML.
   b) Which process is to be considered to get the most benefit from the UML? Explain in detail.

2. a) Explain in detail about modeling webs of relationships.
   b) Describe about modeling static and dynamic types in detail.

3. a) What is reverse engineering? Describe about how to reverse engineer a class diagram in detail.
   b) Explain about common modeling techniques for object diagrams.

4. a) Explain about links and associations that connects objects in detail.
   b) Describe about modeling flows of control by time ordering.

5. a) Describe about where swim lanes are useful in modeling .Illustrate with an example.
   b) Draw the use case diagram for cellular telephone system and explain in detail.

6. a) Describe about modeling synchronous and asynchronous message passing communication in UML.
   b) Explain in detail about state machine diagrams and depicts in detail about states, transitions and events in these diagrams.

7. a) Describe about modeling executable release in detail.
   b) Explain about steps to model a fully distributed system.

8. a) Discuss in detail about sequence diagram for adding item scenario in unified library application.
   b) Draw in detail about use case diagram for unified library system.

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Code No: V3227 **R07** **Set No: 4**

III B.Tech. II Semester Supplementary Examinations, November/December - 2012

OBJECT ORIENTED ANALYSIS AND DESIGN

(Computer Science and Engineering & Information Technology)

Time: 3 Hours **Max Marks: 80**

Answer any FIVE Questions

All Questions carry equal marks

*****

1. a) Describe in detail about the building blocks of the Unified Modeling Language.
   b) Elucidate about different phases of the process in software development life cycle and show their varying degree of focus over time.

2. a) Describe in detail about modeling new building blocks and new properties in detail.
   b) Explain about the standard stereotypes that apply to packages by UML.

3. a) Describe about modeling a logical database schema with an example.
   b) Explain about common properties and commonly used contents of object diagrams.

4. a) With an example show how UML provides a visual distinction among different kinds of messages.
   b) Explain about modeling flows of control by organization with an example.

5. a) Describe in detail about the contents of activity diagrams .
   b) Draw and explain about Use Case diagram for Banking System.

6. a) Enumerate steps about modeling lifetime of an object.
   b) Explain about representation of time, duration and location in UML.

7. a) Describe about how to visualize physical distribution of components across the processors and devices of the system with an example.
   b) Discuss about modeling tables, files and documents in controlling the configuration of system.

8. a) Which diagrams in the design model for the specifications are fetched during coding ? Explain in detail.
   b) Describe in detail with sequence diagram for lending an item in unified library application.

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