7. SUBJECT DETAILS

7.1 MANAGEMENT SCIENCE

- 7.1.1 Objective and Relevance
- 7.1.2 Scope
- 7.1.3 Prerequisites

7.1.4 Faculty

- 7.1.5 Syllabus
- i. JNTU
- ii. GATE
- iii. IES
- 7.1.6 Suggested Books
- 7.1.7 Websites
- 7.1.8 Experts' Details
- 7.1.9 Journals
- 7.1.10 Findings and Developments
- 7.1.11 Session Plan
- 7.1.12 Stundet Seminars
- 7.1.13 Question Bank
 - i. JNTU
 - ii. GATE
 - iii. IES

7.1.1 OBJECTIVE AND RELEVANCE

This subject effectively helps any engineer to know the concepts of management and the techniques, which need to be adopted for the successful utilization of the resources. In modern business environment, the functions of the manager are more or less the same irrespective of the nature and size of the organization. Hence this will help him to successfully carry out his endeavour in any area wherever he is placed and also to manage an organization if he intends to start a business of his own.

The subject introduces the student to the various theories of management, levels and its functions, which ought to be carried out at each level for the success of the organization. The three levels discussed are high level or strategic management, middle level or tactical management and low level or operational management.

The top level management constituted of owners, directors, CEO's do the planning for the organization regarding targets which need to be achieved in the future and in the immediate future taking into consideration of the opportunities available to them and the threats they may face from the competitors.

The middle level management constituted of executives of various departments stand as a bridge in between high level and low level managements for the execution of the plans as set by the top level management. The low level management executes production of the product using the resources available.

7.1.2 **SCOPE**

This subject covers the areas of production management, operations management, high lighting the significance of management in the organisations. It also emphasizes on human resource management which is considered as human capital and the most important factor of production for the success of the oganisation. Strategic management highlights on core competencies of the firm through SWOT analysis. It also gives the significance of project management which shows efficiency of the organisation. It introduces students to the concept of contemporary management practices giving basics of MIS, material requirement planning, ERP, BPO, Six sigma the like. All the areas give a scope to understand the importance of different branches of management and their practical application in this competitive business environment.

7.1.3 PREREQUISITES

Basic knolwedge about the organisational hierarchy, the frame work with in which it funcitons, policies and programes adopted, the HR practices and modern business environment and contemporary management.

7.1.3.1 FACULTY

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Department of Business Administration
Aurora's EngineeeringCollge, Bhongir

7.1.4.1 JNTU SYLLABUS

UNIT I OBJECTIVE This unit introduces the students to different theories proposed by various management pioneeres like Taylor, Fayol, Maslow. It explains different concepts of management, its nature and features. The important of management in the modern business scenario, the development of management thought. It also introduces the students to the structure of the organisation, which provides the plat form for managerial functions to be performed

SYLLABUS

Introduction, concept of management and organization, nature, importance and functions of management, Taylor's Scientific management theory, Fayol's principles of management, Mayo's Hawthorne experimements, Maslow's theory of human needs, Douglas McGregor's theory X and theory Y, Herzberg's two factor theory of motivation, systems aporach to management, leadership styles, social resonsiblties of management.

UNIT-II OBJECTIVE

This unit deals with organisational design and different concepts related to organisational structure. The significance of structures, line and staff and other structure like functional organisation, matrix organisation, veritualorganisation, cellular organisation, team structure and lean and flat organisation structure are explained along with merits and demerits and their suitability

SYLLABUS

Designing organisational structures, basic concepts related to organisation, departmentation and decentralisation, types of mechanistic and organic structures of organisation (Line organization, line and staff organization, funcional organization, committee organization, matrix organization, virtual organisation, cellular organisation, team structure, boundaryless organization, inverted pyramid structure, lean and flat organization structure) and their merits, demerits and suitability.

UNIT-III OBJECTIVE

This unit focuses on operational level, production and productivity, types of production for different types of products, and various techniques to increase productivity. Work study, method study explain how unnecessary movements of worker can be reduced there by reducing the wastage and to increase the productivity.

Statistical quality control method explains how to maintain quality of the products being manufactured through techniques like acceptance sampling.

SYLLABUS

Operational management, principles and types of plant layout methods of production (Job, batch and mass production), work study, basic procedure involved in mehodsudy and work measurement, statistical quality control, X chart, R chart, p chart, (simple problems), acceptance smapling, demings' contribution to quality.

UNIT-IV OBJECTIVE

This unit deals with material management. The purpose of the inventory control, the ways in which economic quantities can be procured is explained. The students gets to understand methods of classification, codification of materials, stores management, purchasing procedure. The post production aspect which is marketing, explain the various marketing strategies, product life cycle and channels of distribution.

SYLLABUS

Material management: objectives , need for inventory control, EOQ, ABC analysis, pruchase procedure, stores management and stores reocords.

Marketing: functions of marketing, marketing mix, marketing strategies based on product life cycle, channels of distribution.

UNIT-V

OBJECTIVE

This unit focuses on how to effectively manage the key resource of the organization, namely the human resource. Many organizations have begun to realize that the success of the organization depends upon the quality and quantity of manpower. Hence this unit discusses about the functions of HR-manager on how he needs to effectively recruit manpower, how to train them to make them fit for doing the job, how to fix the compensation package for the service rendered and how to settle the grievances which may arise among the workers etc.,

SYLLABUS

Human resources management (HRM), concepts of HRM, HRD and personnel management and industrial relations (PMIR), HRM V/s PMIR, basic functions of HR manage, manpower planning, recruitment, selection, training and development, placement, wage and salary administration, promotion, transfer and separation, performance appraisal, grievance handling and welfare administration, job evaluation and merit reading

UNIT-VI OBJECTIVE

This unit focuses on project management i.e., execution of the project within the limitations of time and resources available. The two techniques discussed are PERT and CPM. The former is a probabilistic method, which determines the time duration for each activity in the project and the overall probability of completing the project in a given period of time. The latter is a deterministic method, used whenever project needs to be crashed in the time of urgencies. It is used to find the optimum time and cost involved in the execution of the project, during crashing.

SYLLABUS

Project management (Pert/CPP), Network analysis, programme evaluation and review technique (PERT), critical path method (CPM), identifying critical path, probability of completing the project within given time, project cost analysis, project crasing (simple problems)

UNIT-VII OBJECTIVE

This unit focuses on how managers lead the organisation strategically withstanding the competition and derive competitive advantage. It discusses about the vision, mission, goals and objectives which lead to attainment of overall objectives of the organisation. And also deals about the SWOT analysis which eanblesorganisation to understand their strengths, weakness, opportunities and threats.

SYLLABUS

Strategic management, mission, goals, objectives, policy, strategy, programmes, elements, of corporate planning process, environmental scanning, value chain analysis, SWOT analysis steps in strategy formulation and implementation, generic strategy alternatives.

UNIT-VIII

OBJECTIVE

Contemperaray management practices deals with the basic concept of management inforation system, concepts of total quality management, supply chain management, ERP and BPOs.

SYLLABUS

Contemporary management practices, basic concepts of MIS, end user computing, materials requirement planning (MRP), Just -in-time(JIT) system, total quality management (TQM) Six sigma and capability maturity model (CMM) levels, supply chain management, enterprise resource planning (ERP), performance management, business process outsourcing (BPO) business process Re-engineering and bench marking, balanced score card.

7.1.4.2 GATE SYLLABUS

Not applicable

7.1.4.3 IES SYLLABUS

Not applicable

7.1.5 SUGGESTED BOOKS

TEXT BOOKS

- T1 Management Science, Aryasri, TMH, 2004
- T2 Mangement, Stoner, Freeman, Gilbert, Pearson Education, New Delhi, 6th Ed. 2004.

REFERENCE BOOKS

- R1 Kotler Philip & Keller Kevin Lane: Marketing Mangement 12/e, PHI, 2005
- R2 Koontz & Weihrich: Essentials of Management, 6/e, TMH, 2005
- R3 Thomas N.Duening& John M.Ivancevich Management, Principles and Guidelines, Biztantra, 2003.
- R4 KanishkaBedi, Production and Operations Management, Oxford University Press, 2004.
- R5 Memoria&S.V.Gauker, Personnel Management, Himalaya, 25/e, 2005
- R6 Samuel C.Certo: Modern Management, 9/e, PHI, 2005
- R7 Schermerhorn, Capling, Poole & Wiesner: Management, Wiley, 2002.
- R8 Parnell: Strategic Management, Biztantra, 2003.
- R9 Lawrence R Jauch, R.Gupta&William F.Glueck:Business Policy and Strategic Management, Frank Bros.2005.
- R10 L.S.Srinath: PERT/CPM, Affiliated East-West Press, 2005.
- R11 Principles and Practice of Management, LM Prasad, S. Chand and sons
- R12 Industrial Engineering Management, OP Khanna, Dhanpat Rai,1999
- R13 Personnel Management, Memoria and SV.Gauker, Himalya, , 25/e, 2005
- R14 Production and Operation management, K. Aswathappa, K Sridhar Bhatt,
- R15 Marketing Managment, Kotler Philip, PHI, 2002
- R16 Essential Management, Koontz and Weihrich, TMH, 6/e, 2005
- R17 PERT/CPR, L.S Srinath, Affilliated East-West Press, 2005,
- R18 Bunsienss Policy and Strategic Managemetn, Lwarence R. Jauch, R. Gupta and williams, F. Glueck, Frank Bros., 2005.

7.1.6 WEBSITES

- 1. www.strat.com
- 2. www.vu.edu.au
- 3. www.iif.edu/academifraternity/faculty.htm
- 4. www.management.bu.edu
- 5. www.aprat.com
- 6. www.finmin.nic.in

7.1.7 EXPERTS' DETAILS

INTERNATIONAL

1. Mr. Francis J. Flynn

Associate Prof. of OrganisationalBehaviour

Stanford University

Graduate School of Business

Email: flynn_francis@gsb.stanford.edu

2. Mr. William P. Barnett

Prof. Business Leadership, Strategy

518 Memorial Way, Stanford

Graduate School of Business

Email: barnett_william@gsb.stanford.edu

3. Peter F.Drucker,

Clarke Professor of Social Science and Management Claremont Graduate School, California

NATIONAL

1. Mr. P. L. Tandon,

Professional Management in India, Department of Business Management, Ludiana, Punjab, Agri University – 1974.

2. Mr. C.K.Prahlad,

Indian Management Guru, University of Michigan Email :ckp@umich.edu

3. Mr. ArindamChaudhuri,

Professor in Economics,

IIPM, New Delhi

Email: www.arindamchaudhuri.com

4. Mr. Jerome Joseph

Email: jerome@iimahd.ernet.in

REGIONAL

1. Mr. B. Krishna Reddy

Associate Prof. Departement of Business Management

OU, Hyderabad

Email: drbkrishnareddy@yahoo.co.in

2. Mr. A.R.Aryasri,

Professor in MBA, JNTU Email: aryasri@yahoo.com

3. Dr. Ch. Suravindha

Reader, Department of Commerce

Nagarjuna University,

Email: suravindac@yahoo.com

4. Prof. G. Prasad, M.Com, B. L., Ph.D.

Chairman, Board of Studies (PG)

Nagarjuna University

Email: profprasadnu@yahoo.com

7.1.8 JOURNALS

INTERNATIONAL

- 1. Econometrica (NA)
- 2. Sloan Management Journal (NA)
- 3. Harvard Business Review I.
- 4. International Business Review (NA)
- 5. Journal of International Business Studies (NA)

6. Strategic Management Journal (NA)

NATIONAL

- 1. Management Insight (NA)
- 2. Business Vision I.
- 3. ICFAI Journal of OrganisationalBehaviour I.
- 4. Indian Today I.
- 5. Journal of Management Studies I.
- 6. ICFAI Journal of Marketing Management I.
- * NA Not available A- Available

7.1.9 FINDINGS AND DEVELOPMENTS

- 1. Strategic Management, The Strategy field from the Perspective of Management Science, Divergent Stands and Possible Integration, Giovanni Gavetti, Harvard Business School, Volume No. 50, No. 12, Supplement, December 2004, PP: 1763.
- 2. Operations and Supply Chain Management, Five decades of operations management and prospects ahead, Sunil Chopra and William Love Joy, Kellogg School of Management, Illinois, Volume No. 50, No. 12, Supplement, December 2004, PP: 0025.

7.1.10 SESSION PLAN

SI. No	Topics in JNTU Syllabus	Modules and Sub modules	Lecture No.	Suggested Books	Remarks
		UNIT-I (Management, skills O	verview)		
1	Introduction to management	Introduction	L1	T1-Ch1, R1-Ch23	
2	Concept of management and organization Nature, importance and function of management	Concepts challenges to management		T1-Ch1, R1-Ch23	
3	Taylor's scientific management	Scientific management period	L2	T1-Ch3, R1-Ch23	
4	Faylor's principles of management	Natureand features	L3	T1-Ch3, R1-Ch23	
5	Hawthorne experiments	Hawthorne experiments	L4	T1-Ch3, R1-Ch23	
6	Maslows theory of human needs	Motivational factors	L5	T1-Ch3, R1-Ch23	
7	Dugla'sMcgreor's theory X and theory Y	Theory X and Theory Y	L6	T1-Ch3, R1-Ch23	
8	Herberg's Two factor of motivation	Hygiene factors	L7	T1-Ch3, R1-Ch23	
9	Systems approach to management	Systems approach to management	L8	T1-Ch3, R1-Ch23	
10	Leadership styles	Leadership theories	L9	T1-Ch3, R1-Ch25	
11	Social responsibilities of management	Social responsibilities of business	L10	T1-Ch3, R1-Ch25	
	UNIT	-II (View on organization	s. struc	tures)	
12	Designing organizational structures Basic concepts Departmentation Features	Basic concepts related to organisation	L11	T1-Ch4, R1-Ch12	
13	Departmentation and decetralisation	Departmentation and decetralisation	L12	T1-Ch4, R1-Ch12	
14	Types of mechanistic and organic structures for organisation	Mechanistic systems	L13	T1-Ch4, R1-Ch13	
15	Line organisation Staff organisation	Department line Merits Staff features	L14	T1-Ch4, R3-Ch6	
16	Functional organisation	Suitability of firm	L15	T1-Ch5, R3-Ch6	
17	Committee organisation Matrix organisation Virtual organisation	Design of matrix structure Reasons for virtual organization Virtual office	L16	T1-Ch5, R3-Ch6	
18	Cellular organisation Team organisation	Organization structures	L17	T1-Ch5, R3-Ch6	
19	Boundary less organisation	Organization forms	L18	T1-Ch5, R3-Ch6	
20	Merits Demerits and suitability	Merits, demerits and suitability of various organizational forms	L19	T1-Ch5, R3-Ch6	

SI. No	Topics in JNTU Syllabus	Modules and Sub modules	Lecture No.	Suggested Books	Remar ks
110	IINIT-III (Fo	us on materials, operation	l .		N3
21	Operations management principles	Principles and types of plant layout	L20	T1-Ch6, R2-Ch4 R4-Ch20	
22	Methods of production (job batch and mass production)	Objectives of good plant layout Process layout Product layout	L21	T1-Ch6, R2-Ch4 R4-Ch20	
23	Work study Basic procedure involved method study and work measurement	Need for workstudy Objectives of work measurement	L22	T1-Ch8, R2-Ch4 R4-Ch20	
24	Statistical quality control	Definitionand concepts	L23	T1-Ch9, R2-Ch4 R4-Ch20	
25	Chart, R chart C chart and P Chart Simple problems	Controlcharts Purpose and advantages	L24	T1-Ch7, R2-Ch4 R4-Ch20	
26	Acceptance sampling Demings contribution to quality	Sampling	L25	T1-Ch7, R2-Ch4 R4-Ch20	
		IIT-IV (Marketing , EOQ ov	verview	<u>')</u>	•
27	Material management Objectives Need for inventories control EOQ	Functions of material management Objectives Economic order quantity	L26	T1-Ch10, R2-Ch23 R4-Ch22	
28	ABC analysis Stores management and store records Purchase procedure	Necessity, steps Stores and material control Purchase or procurement	L27	T1-Ch10, R2-Ch23 R4-Ch22	
29	Marketing Functions of marketing Marketing mix	Introduction and definition Production, price, promotion and distribution	L28	R5-Ch10, R2-Ch31 R6-Ch5	
30	Marketing strategies Based on product life cycle	Sales promotion Product mix stages	L29	R5-Ch11, R2-Ch31 R6-Ch5	
31	Channels of distribution	Marketing channels	L30	R5-Ch11, R2-Ch31 R6-Ch5	
32	Revision of Unit 1 and 2	Revision of Unit 1 and 2	L30	T1-CH1,CH2 & CH3	
33	Revision of Unit 3 and 4	Revision of Unit 3 and 4	L31	T1-CH4, CH5, CH6 & CH7	
	UNIT-V	(Manpower, HR manage	r duties	s etc.)	
32	Human resource management (HRM) Concept of HRM HRD, Personnel management and PMIR HRM Vs PMIR	Introduction to HRM Benefits of HRM Objectives	L31	T1-Ch12, R3-Ch31 R6-Ch11	
33	Basic functions of HR manager	The general and specific functions	L32	T1-Ch12, R3-Ch9 R6-Ch11	
34	Manpower planning Recruitment Selection Training and development	Manpower planning definition process	L33	T1-Ch12, R3-Ch8 R6-Ch11	

SI.	Topics in JNTU Syllabus	Modules and Sub modules	Lectu	Suggested Books	Remark
No			re No.		S
35	Placement	Nature and purpose	L34	T1-Ch13, R3-Ch8	
	Wage and salary	Compensation reward		R6-Ch11	
	Administration				
	Promotion				
36	Transfer separation	Purpose of transfer	L35	T1-Ch13, R3-Ch11	
	Performance	Separation Welfare administration			
	Handling and welfare administrations	administration			
37	Job evaluation and merit	Objectives principles of Job	L36	T1-Ch14, R3-Ch15	
,	rating	valuation and merit rating	200	11 0.11 1,110 0.110	
UNI	T-VI (overview on PERT	r,CPU)			
38	Project management	Introduction to network	L37	T1-Ch18, R2-Ch10	
1	(PERT/CPM)	analysis		R7-Ch2	
	Network analysis	Ganttbar charts milestones			
20	DEDE	charts	T 20	m1 Cl 10 P2 Cl (c)	
39	PERT	PERT steps	L38	T1-Ch18, R2-Ch10	
	CPM, identifying critical	Critical path method		R7-Ch2	
40	path Probability of completing	Time estimates	L39	T1-Ch18, R2-Ch10	
70	the project within given	Time estimates	LS	R7-Ch2	
	time			IC, Ch2	
41	Project cost analysis	Significance of cost analysis	L40	T1-Ch19, R2-Ch10	
	Ţ			R7-Ch2	
42	Project crashing	Simple problems	L41	T1-Ch19, R2-Ch10	
	Simple problem			R7-Ch2	
	TI-VII (Strategic, SWOT	Analysis overview)	T	T	1
43	Strategic management	Introduction to Strategic	L42	T1-Ch17, R3-Ch3	
4.4) (°	management	T 42	R8-Ch7,8	
44	Mission	The nature of objectives	L43	T1-Ch17, R3-Ch3 R8-Ch7,8	
45	Goals and objectives Policy, strategy and	Policies	L44	T1-Ch17, R3-Ch3	
43	programmes	Procedures	L	R8-Ch7,8	
46	Elements of corporate	Situational analysis	L45	T1-Ch17, R3-Ch3	
	planning			R8-Ch7,8	
	Process				
	Environmental scanning				
47	Value chain analysis	Strengths weaknesses	L46	T1-Ch16, R3-Ch3	
40	SWOT analysis	Opportunities threats	7.45	R8-Ch7,8	
48	Steps in strategy formulation and	The Strategic planning process	L47	T1-Ch16, R3-Ch3	
	implementation			R8-Ch7,8	
49	Generic strategy	The Strategic planning process	L48	T1-Ch15, R3-Ch3	
'	alternatives	The Strategic planning process	L-10	R8-Ch7,8	
UNI	T-VIII (focus on MIS,JIT	LPPU.PPR etc.)	I	1 * +7*	1
50	Contemporary management	Basic concepts	L49	R2-Ch39	
	practices	Practices		R4-Ch17,R4-Ch20	
51	Basic concepts of MIS	Applications of MIS	L50	R2-Ch39	
	End user computing	Features of MIS		R4-Ch17,R4-Ch20	

SI. No	Topics in JNTU Syllabus	Modules and Sub modules	Lecture No.	Suggested Books	Remar ks
52	Materials requirement planning Just-in-Time (JIT) system	MRP inputs General overall view of MRP	L51	R2-Ch39 R4-Ch17,R4-Ch20	
53	Total quality management (TQM)	Quality control technique	L52	R2-Ch39 R4-Ch17,R4-Ch20	
54	Six sigma and capability maturity model (CMM) levels Supply chain management	Organization for quality control	L53	R2-Ch39 R4-Ch17,R4-Ch20	
55	Enterprise resource planning Performance management	Functions of ERP Features	L54	R2-Ch39 R4-Ch17,R4-Ch20	
56	Business process outsourcing Business process reengineering and bench marking Balance score card	Applications Aspects of score card	L55	R2-Ch39 R4-Ch17,R4-Ch20	
57	Revision of Unit 5 & 6	Revision of Unit 5 & 6	L65	R1-CH8,CH9 & CH10	
58	Revision of Unit 7 & 8	Revision of Unit 7 & 8	L66	R1-CH11 & CH13	

7.1.11 STUDENT SEMINAR TOPICS

- 1. Supply chain management, The management accountant, The institute of cost and works accountant of India, Vol.39, no. 9, Sep 2004.
- 2. The Marketing Department in Management Science, Its History, Contributions, and the Future, Donald G. Morrison, Jagmohan S. Raju, *Vol. 50, No. 4*, April 2004, pp. 425–428,
- 3. A Perspective on Asymmetric Information, Incentives and Intra.rm Resource Allocation, Madhav V. Rajan, Stefan Reichelstein, Vol. 50, No. 12, December 2004, pp. 1–9
- 4. Five Decades of Operations Management and the Prospects Ahead, Sunil Chopra, William Lovejoy, Candace Yano, Vol. 50, No. 1, January 2004, pp. 8–14

UNIT-I

- 1. Describe the nature and importance of management in modern business context. (May 09,sep12, apr 13)
- 2. Name and describe the various levels of management with their functions. (May 09)
- 3. What are the basic leadership styles and their corresponding effective and ineffective styles? (May 09)
- 4. What are the Mayo's Hawthorne experiments? Why are they significant even today? (May 09)
- 5. Explain the concepts of management and organisation and analyse their relationship. (Sep 08)

6. Define management. State the important characteristics of management. (Sep 08) 7. What do you mean by social responsibility of managers? How can social responsibility be made operational in an organisation? (Sep 08) 8. State and explain the Taylor's scientific management. (Sep 08) What are the managerial functions in a service providing organization such as Bharat Sanchar 9. Nigam Limited (BSNL), Life insruance Corporation of India, etc. Explain. (May 08, 07, Nov 04) Bring out the contrast between Theory X and Theory Y. 10. i. ii. Do you find people of these traits around you? Illustrate. (May 08, 06, Sep 07) 11. What is Maslow's hierarchy of human needs? Explain. (May 08, 10, apr13) 12. i. What are the three levels of management? ii. What functions do you find at each of these levels? Explain. (May 08, 06, Nov 04, 03)) 13. i. Why is management considered as a profession and what factors make it a profession? If you are appointed as a manager in a medium sized manufacturing company, what activities do you have to perform? Explain. (May 08) What are the principles of management as outlined by Fayol? 14.. i. Explain whether they hold good in today's context. (May 08) ii. 15. Name and describe the various levels of management with their functions. (May 08) 16. Explain theory X and theory Y as theories of motivation. (May 08) 17 Discuss the leadership styles with examples which Indian managers follow. Can you suggest a best style for them? How? (May 08) 18. What are the basic leadership styles and their corresponding effective and ineffective styles? (May 08) 19. Explain the nature and featuresofmanagement? (Sep 07, Nov 05) Can you Consider management either as an art or science? Justify your answer. (Sep 07, Mar 06) 20. i. ii. What are the features of Management? Explain. What is the significance of Hawthorne experiments for management? 21. i. ii. Explain the Maslow's Theory of Hierarchy of Human Needs. (May 07, 06)22. i. Discuss the main components of Theory of Scientific Management. (May 07, Mar 06) ii. How has it influenced the thinking of managers? Explain. 23. i. Explain operative functions of management. (May 07,06)ii. What is matrix organization and what is uniqueness? What are the managerial functions? 24. i. How are they integrated? (May 06) 25. Trace the history of evolution of management thought with emphasis on modern management techniques. (Mar 06) Explain the contributions of Frederick W. Taylor in the area of Scientific manage-ment and its utility to 26.

27.	Trace the history of evolu	ution of mar	nagement though	at in brief.		(Dec 02, Nov 04)
28.	Explain the hierarchy of approach.	f manageme	ent object and b	oriefly discuss t	he top down	and bottom up
29.	"Management is regarded	d as an art b	y some, science	by others" In the	e light of this s	tatement. (Apr 03)
30.	"The objective of busine Discuss this statement ela		ke profits. It ha	s nothing to do	with social re	esponsibilities". (May 03)
31.	What are the objectives of	of Managem	ent? Explain fun	ections of variou	s management	level.(Jan 03, Apr 02
UNIT-	П					
1. a) E	xplain the line and staff org	anization an		ability		
b) (Jun 20	±	the	various	types	of	committees.
2.a) W b) (Dec 1	hat is boundaryless organiz Explain salient 2)	ation? Give featur		ages and disadva inverted	antages. pyramid	structure.
3	What are the various type merits and demerits.	es of organis	ation structures	Explain them v	vith their	
(May 1	10)					
4.	Critically examine Herzb ories of Herzberg and Macontext? Give reasons.					
(May 1						
5.	Dierentiate between cellu their merits and demerits.	_	tion and bounda	ry-less organisa	tion. Explain	(May
10)						
6. (May 1	State the essential element (0)	nts of good o	organisation.			
7. (May 1	Define `Departmentation' (0)	'Explain its	need in industri	es.		
8.	What is types of committ	tee organisat	tion? Explain the	e basic principle	s of committee	
9.	Explain the following:					(Sep 08)
i.	Principle of Authority an		oility			
ii. iii.	Principle of Unity of Cor Principle of Span of Con					
iv.		u OI				(Sep 08)
10.	State the essential elemen	nts of good o	organisation.			(Sep 08,13)

(Ap

11. "Organisation structure refers to the differentiation and integration of ctivities, authority, roles and relationships". Explain. (Sep 08) 12. What is departmentation? How is it essential for the management of a business enterprise? (May 08) 13. Name and describe the principles of organisation. (May 08) 14. Describe briefly the various steps involved in organising procedure. (May 08) 15. What are the various types of organisation structures? Explain them with their merits and demerits. (May 08) 16. i. Explain and evaluate line and staff organization. Where do you find it useful? (May 08) 17. Explain the concepts of line, line & staff and functional organizations, Also illustrate. (May 08) 18. Compare and contrast formal and informal organization. Why each one is significance? (May 08) 19. i. What do you understand by decentralization? (May 08, 07, Nov 05) ii. How do you determine the need for decentralization? Explain. 20. Explain the concept of organization as a process and as a structure. (Sep 07, May 07) 21. Is there any link between mission, goal, objective, strategy and programme in an industrial environment. (Sep 07) 22. How is line and staff form different from other types of organization? (Sep 07) 23. Discuss the features of Line and Staff organization For what type activities it is best suited? (Sep 07) 24. What are the relevant points to be kept in mind while drawing the organization chart? (Sep 07) Describe the various stages of product life cycle. (Sep 07) ii. Explain how strategies keep changing in time with changes in the stages of product life cycle? 26. What is matrix organization and what is uniqueness? (May 07, 06)What do you understand by decentralization? How do you determine the need for 27. decentralization? Explain. (May 07) What is organizational chart? (May 06, Nov 05) ii. What is importance in Preparingorganisation chart iii. Give any Three different examples 29. Explain the concepts of line, line & staff and functional organizations. Also illus-trate. (May 06) 30. Why does 'organizing' assumes increasing importance in the modern times? (May 06) 31. What are the principles of sound organization structure? Explain. (Nov 05) 32. i. What is the need for designing an organization? (Nov 05)

- ii. Is there any link between 'management' and 'organization'? Explain.
- 33. Compare and contrast between line and staff organization

(Nov 05)

- 34. Describe the organization using the systems perspective? Explain how systems perspective is used to describe managers responsibilities. (Nov 05)
- Define the external and internal environment of an organization explain the effect of these two environments on the managers working for the organization (May 05, Jun 03)
- 36. Discuss the features of Line and Staff organization with a chart.

(May 05)

- 37. What do you understand by decentralization? How do you determine the need for decentralization? Explain. (May 05)
- 38. Define departmentation. Explain any two methods of departmentation.

(May 05)

39. Explain the hierarchy of an organization with suitable charts

(May 05, Nov 02)

40. Discuss utility of organization structure in organization

(Jan 03, Dec 02)

UNIT-III

- 1. What is the processor for placing a purchase order (Jun 2013)
- 2. a) Consider finding the location of garment industry, state and explain the various factors to be considered.

(Dec 12)

3. State and explain the steps involved in method study procedure.

(May 10)

4. A hardware shopkeeper purchases nails from a manufacturer who produces them indierent sizes of lots as given below in the table and also the number of rejected pieces. Compute the control limits for each lot and plot the p chart.

(May 10apr 13)

5. Dierentiate between 'job order production' and 'batch production' systems.

(May 10)

6. Dene Acceptance Sampling. What are the methods of Acceptance Sampling? Explain.

(May 10)

- 7. What do you mean by work study? Explain the basic procedure involved in method study and work measurement. (Sep 08)
- 8. What is a flow chart? Discuss its utility for method study engineer.

(Sep 08)

9. Define Plant layout. Explain the objectives of the good plant layout.

(Sep 08)

10. The following table gives the number of rivets missing at aircraft final inspection. Prepare appropriate control chart.

(Sep 08)

- 11. i. What are the objectives of plant layout?
 - ii. Explain the factors influencing plant layout.

(Sep, May 08, 07)

12. Define work measurement. What are its objectives?

(May 08)

13. A hardware shopkeeper purchases nails from a manufacturer who produces them in different sizes of lots as given below in the table and also the number of rejected pieces. Compute the control limits for each lot and plot the p chart.

		0)
14.	Name and describe the various tools and techniques used in layout planning. (May 0 (May 0	
15.	Define Inspection. What are the kinds of Inspection? (May 0	8)
16.	Give the basic procedure involved in work study. (May 0	8)
17. i. ii.	Compare and contrast product and process layout. Supplement Your answer with suitable diagrams. (Sep 07, May 0	06)
18. i. ii.	Explain the features of good stores layout? (Sep, May 0 Explain the formats of different documents used in a store?) 7)
19. i. ii.	What is work study? Discuss its main objectives Outlive the procedure used for conducting method study? (May 07, Nov 0)	3)
20. i.	Discuss the factors which should be taken into account in deciding the location of	
ii.	a plant. What is a fixed position layout and under what conditions do you adopt it? Explain. (May 0	7)
21.	What is a fixed position layout and under what conditions do you adopt it? Explain	
22. i. ii.	Describe the various stages of product life cycle Explain how strategies keep changing in time with changes in the stages of produce life cycle? (May 07,1	2)
23. i. ii.	What is the concept of control chart for variables? How will you construct them? Illustrate. (May 0	6)
24.	A simple of 100 automobile bearing is inspected daily for continuously 10 days. raw the Date 1 2 3 4 5 6 7 8 9	he p chart with the
	Defectives 18 12 6 15 2 20 14 10 8 8	
25.	What is a fixed position layout and under what conditions do you adopt it? Explain. (May 0	6)
26.	'Process layout is better than product layout' with what conditions do you agree? Support your answer. (May 0	6)
27.	Check whether the number of observations is adequate for an accuracy of \pm 5% and co	nfidence level of
28.	Discuss the factors which should be taken into account in deciding the location of a plant.	_
29.	What is a fixed position layout and under what conditions do you adopt it? Explain.	6)
30.	(Mar 06, Nov 0) What is fixed position layout? Explain its advantages and disadvantage	
31. i. ii.	Explain how standard time is set under time study Explain the various allowances and the reasons thereof to be considered while estimating the standard time.	5)

32.	What are the features of process layout, its advantages and disadvantages?	(Nov 04)				
33.	What do you understand by product layout? Analyze the advantages and disadvantages of product layout. $(Nov\ 04)$					
34.	What is work measurement? What are the various approaches to work measurement?	(Dec 02)				
35.	Discuss work measurement techniques you are aware of (Dec					
36.	A residential school stipulates the study hours as 8.00 pm to 10.30 pm. Warden makes random checks on a certain student 11 occasions a day during the study hours over a period of 10 days and observes that he is studying on 71 occassions. Using 95% confidence interval, the estimated minimum hours of his study during that 10 day period is i. 8.5 hours ii. 13.9 hours iii. 16.1 hours iv. 18.4 hours (GATE 03)					
37.	The standard time of an operation while conducting a time study is (GATE 02) i. mean observed time + allowances ii. normal time + allowances iii. mean observed time X rating factor + allowances iv. normal time X rating factor allowances.	+				
38.	In carrying out a work sampling study in a machine shop, it was found that a particular lather down for 20% of the time. What would be the 95% confidence interval of this estimate if to observations were made? i. 0.16, 0.24 ii. 0.12, 0.28 iii. 0.08, 0.32 iv. None of these (GATE 02)					
39.	In a time study exercise, the time observed for an activity was 54 seconds. The operator had a performance rating of 120. A personal time allowance of 10% is given. The standard time for th activity, in second is i. 54 ii. 60.8 iii. 72 iv. 58.32 (GATE 00)	e				
40.	Preliminary work sampling studies show that machine was idle 25% of the time based on a sam of 100 observations. The number of observations needed for a confidence level of 95% and accuracy of \pm 5% is i. 400 ii. 1200 iii. 3600 iv. 4800 (GATE 96)					
41.	In a weaving operation, the parameter to be controlled is the number of defects per 10 square ya of material. Control chart appropriate for this task is i. P-Chart ii. C-chart iii. R-Chart iv. None (GATE 98)	urds				
UNIT-I	IV .					
b) E: 2013)		jun				
 3. 	a) Explain the various steps involved in method study. Draw any one chart used in method study.b) Distinguish between observed time and normal time. (Dec 12)XYZ Company requires 16000 units of a raw material costing Rs. 2 per unit. The					

cost of placing an order is Rs. 45 and the carrying costs are 10% per year per unit of the average inventory. The number of working days is 300 in a year. Determine:

(a) The economic order quantity

(May 10) 4. Enumerate the duties of a store keeper. (May 10) 5. Whether the concept of Just-In-Time System is suitable in Indian industry or Not? Discuss. 6. Dene marketing strategy. What are the methods of market segmentation? (May 10) 7. (a) State the benets of modern marketing concept. (b) Compare and contrast between selling concept and marketing concept. (May 10) 8. Write short n i. Purchase requisition ii. Notice for inviting tenders iii. Comparative statement iv. Purchase order. (Sep 08) 9. Define consumer behaviour? What is its importance in marketing? (Sep 08) 10. Describe the marketing mix with its basic elements. (Sep 08) 11. What are the duties, functions and responsibilities of a purchasing manger? (Sep 08) 12. i. Explain the concept of 'Economic Order Quantity'. (May 08, 06)ii. Explain the variables that go into the determination of EOQ. Show how the formula is derived. 13. What do you mean by marketing? How is it different from selling. (May 08) 14. "Marketing should aim at meeting a given consumer need rather than selling a given product." Comment. (May 08) 15. i. Define EOQ. Whether the factors that determine EOQ ii. A firm requires 1000 units of a particular component. It pays Rs.50 per component to the vendor. The ordering cost is Rs.250 per order. The inventory carrying cost is 20% of the inventory per annum. Calculate a. EOO b. Number of orders per year. c. Total annual cost. (May 08) 16. i. Explain the concept of 'Economic Order Quantity'. ii. Explain the variables that go into the determination of EOQ. iii. Show how the formula is derived (May 08Apr 13) 17. i. What are the costs associated with effective inventory control? ii. How would you deal with them in modern management? (May 08) (May 07, N 18. Explain the features of good stores layout? ii. Explain the formats of different documents used in a store? 19. i. Define 'Market Segmentation'. ii. Explain clearly the basis for market segmentations. (May 07, 06)

(b) No. of orders to be placed in a year and

(c) Order Interval.

	Explain the functions of materials manager? How are the activities need coordination with other functional areas? (May 07	, Mar 06)
21.	What are the objectives and advantages of scientific inventory control?	(May 06)
22. i. ii.	What are the factors that determine the choice of channels of distribution? Why do manufacturers favourintermediaries.	(May 06)
23. i. ii.	optimum results.	(May 06) erivE
24.	Determine the various stock control levels with the following information: No usage- 500 units per day. Minimum usage - 2400 units per day, maximum usage- 7700 units per day, time 10-20 days and EOQ is 8,000 units.	
iii.	Write short notes on: Speculative purchasing Rate contract purchasing Tenders Earnest money and Security deposit	(Mar 06)
26. i. ii.	Discuss the important functions of stores in an organization? Briefly explain the normal procedure to be followed while dealing with supplies	(Mar 06)
27. i. ii. iii.	What are the objectives and advantages of scientific inventory control? (Mar. How product layout is different from process layout? Explain both concepts with the help of suitable diagrams.	r 06,8,12)
28.	What are the various functions of marketing? ii. What factors influence consbehaviour?	umer
29.	Write short notes on a. Safety stock b. Bin card c. Lead time	(Nov 05) (Nov 05)
30. i. ii.	What are the inventory acquisition costs and inventory carrying costs? Derive an expression for an economic order quantity, clearly stating all assumptions made in derivation.	(Nov 05) l the
31.	The various functions of marketing? Explain.	(May 05)
32.	Evaluate different methods of purchasing?	(May 05)
33.	What is acceptance sampling? Illustrate the concepts of single and double sampling.	(May 05)
34.	Explain the functions of materials manager?	(May 05)
35.	What are the objectives of purchasing? Explain the merits and decentralized purchasing systematical explains are the objectives of purchasing systematical explains and decentralized purchasing systematical explains are the objective explains and decentralized purchasing systematical explains are the objective explains and decentralized purchasing systematical explains are the objective explains and decentralized purchasing systematical explains are the objective explains and decentralized purchasing systematical explains are the objective explains and the objective explains are the objective explains are the objective explains and the objective explains are the objective explains are the objective explains and the objective explains are the objective explains and the objective explains are the objective explains and the objective explains are the objective explains are the objective explains and the objective explains are the objective expl	em. (Nov 04)
36. i. ii. iii. iv.	Define terms Normal Cost Crash cost Normal time Crash time	(Dec 04)

37.	Explain the formats of different documents used in a store?	(Nov 04)				
38.	Discuss the concept, role and utility of ABC analysis as applied to inventory control.	(May 03)				
		(May 03)				
39. i. ii.	Explain the functional organization of purchase department in an industrial concern. What are the duties, functions and responsibilities of purchase department (May 03)					
40.	Elaborate on the concept of material management to perform his job effectively	(Nov 03)				
41.	Discuss the main techniques of statistical quality control.	(Nov 03)				
42.	What is EOQ? How is it measured? Explain its importance inventory control.	(Apr 03)				
43.	What is the significance of marketing function in an enterprise? Explain managerial a thereto, to attain corporate goals	aspects (Apr 03)				
44.	What is systems approach and contingency approach? Explain the relationship between the their limitation.	m and				
45.	There are two products P and Q with the following characteristics. The economic order quantity (EOQ) of products P and Q will be in the ratio i. 1:1 ii. 1:2 iii. 1:4 iv. 1:8 (GATE 04)					
46.	An item can be purchased for Rs. 100. The ordering Cost is Rs. 200 and the inventory ca cost is 10% of the item cost per annum. If the annual demand is 4000 units, the economic quantity (in units) is i. 50 ii. 100 iii. 200 iv. 400 (GATE 02)					
47.	A company places orders for supply of two items A and B. The order cost for each of the item Rs. 300/order. The inventory carrying cost is 18% of the unit price per year per unit. The un prices of the items are Rs. 40 and Rs. 50 respectively. The annual demandsa re 10,000 and 20 respectively. i. Find the economic order quantities and the minimum total cost, ii. A supplier willing to give a 1% discount on price, if both the items are ordered from him and if the order quantities for each item is 1000 units or more. Is it profitable to avail the discount? (GATE - 2000)	it 0,000 r is				
48.	If the demand for an item is doubled and the ordering cost halved, the economic order quanti i. remains unchanged ii. increases by a factor of iii. is doubled iv. is halved (GATE 95)	ty				
49.	For xyz company, the annual requirement of an item is 2400 units. Each item costs the cor. Rs. 6. The supplier offers a discount of 5% if 500 or more quantities are purchased. The or cost is Rs. 32 per order and the average inventory cost is 16%. Is it advisable to accediscount? Comment on the result.	dering ept the				
50.	ABC analysis in materials management is a method of classifying the inventories based on i. The value of annual usage of the items iii. Economic order quantity iii. Volume of material consumption iv. Quantity of Materials used (IES 03)	ES 04)				
51. i. ii.	Consider the following statements in respect of double sampling plan: Average number of pieces inspected is double that of single sampling. Average number of pieces inspected is less than that for single sampling.					

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(IES 95)

6. How should one go about identifying training needs in an organization? (May 10,Apr 13) 7. Explain different techniques of job evaluation. What are the advantages and disadvantages of each technique. (Sep 08) Do you prefer centralized recruitment or de-centralized recruitment for recruiting executives in 8. public sector? Substantiate your argument with adequate reasoning. 9. Evaluate the significance of performance appraisal in an educational institution. How would you make it more effective? (Sep 08) 10. Describe in detail the process of performance appraisal. (Sep 08) 11. i. What is Induction? What is the purpose of induction? What is the difference between Training and Development? Explain. ii. (May 08, Sep 07) 12. i. Discuss in detail the objectives and functions of Human Resource Management? 'The success of an organization to a greater exlent depends on how the HRD acts' ii. Substantiate (May 08, 07, Nov 05) 13. Explain different methods of on-the-job training and off-the-job training. 14. What are the key functions of a Human Resource Manager? (May 08) What is the role of Human Resource Manager in development and growth of an organization? 15. i. Explain how 'Human Resource Planning' process can be formulated? (May 08) 16. Discuss in detail the objectives and functions of Human Resource Management? (May 08) 17. Briefly explain the concept of selection. What are the different techniques of selection followed by a Personnel Manager, while employing the personnel in anorganization? (May 08) 18. Highlight the significance of job description in selection. (May 08) 19 Explain some of the problems in interview as a method of selection? (May 08) 20 What are the best methods of recruitment for positions below supervisory level? (May 08) Why do personnel managers fail? Why do HR Managers succeed? Explain. 21. (Sep 07,12)What are the key functions of a Human Resource Manager? 22. (Sep, May 07) 23. Explain how manpower planning helps to evolve different HR strategies. (Sep, May 07) 24. What is labour turnover? What are the reasons and disadvantages high labourturnoverincallcentres? (Sep 07) What are the implications for HRM with the increasing number of highly educated and 25. professional work force entering the employment market? How HR manager get readytoforce them? (Sep 07) What is performance appraisal? What are the steps involved in performance appraisal? 26. (May 07) 27. What do you understand by job evaluation? Explain in detail different methods of job evaluation. (May 07) 28. What are the objectives and activities associated with manpower planning? Explain.

(May 08, Nov 0

(May 07, 06)

- 29. How does job analysis form the basis for job description and job specifications?

 How does it help the personnel manager? (May 06)
- 30. What is the role of a personnel manager in the present day challenges -Elaborate. (May 06)
- 31. What is the purpose of training? Explain how training can be imparted? (May 06)
- 32. i. What do you understand by 'Human Resource Management'? (May 06)
 - ii. What are its elements?
 - iii. What is its importance to organizational development.
- 33. What is recruitment? Evaluate different the sources of recruitment. (May 06, Nov 05)
- 34. i. How has personnel management changed over the years? Explain. (May 06, Nov 05)
 - ii. What are the functions of a personnel manager in a large manufacturing or-ganization? Explain in brief.
- 35. How can Human Resource manager bring about HR orientation in an organization and what are the implications? (May 06)
- 36. Explain the following concepts with appropriate examples. (May 06)
 - i. Job description
 - ii. Job specification
 - iii. Job enrichment
 - iv. Job requirement.
- 37. What are the stages in manpower planning? Discuss.

(Mar 06)

38. What are the objectives of wage and salary administration function? (Mar 06)

UNIT VI

1. What are the differences between PERT and CPM (jun 13,apr 13)

2. The following represents a project that should be scheduled using PERT

Activity	Immediate Pre	decessors	Times (days)	
·		Optimistic time	Most likely time	Pessimistic
time		_	•	
A	-	10	22	28
В	A	4	4	10
C	A	4	6	14
D	В	1	2	3
E	C	1	5	9
F	C,D	7	8	9
G	E,F	2	2	2
a)	Draw the netw	ork		

- b) What is critical path and the expected project completion time?
- c) What is the probability of completing this project within 35 days? (Dec 12)
- 3. A project has nine activities, the expected time of each activity is as follows:

- (a) Draw the project network
- (b) Identify the critical path
- (c) Find project duration
- (d) Find slack time at each event?

(May

10)

4. The normal cost and duration, crash cost and duration of activities of a project are given in table. If the overhead cost is.Rs.45 per day, determine the optimal cost schedule for the project by drawing the project schedule Vs total cost.

(May 10)

- 5. The various activities related to a project and their three time estimates are listed in table. You are required to
 - (a) Determine the duration of the project
 - (b) Find the variance of all activities and the variance of the project
 - (c) What is the probability of completing the project in 14 days?
 - (d) What due date has about 92% of chances of being met?

(May 10 12)

- Why is it necessary to PERT network? How does it help the management of a project? (May 10)
- 7. Given the following data, compute the expected project duration by drawing a network and indicate critical path. Find total slack of each event. (Sep 08)
- 8. Explain how do you determine the probability of meeting the scheduled date of completion of project.

(Sep 08, 09, 12)

- 9. How do you compute the probability of completion of project within scheduled time?
- (Sep 08)
- 10. Draw the PERT network for the following activities and determine the probability of completing the project in 48 days. 6. How do you compute the probability of completion of project within scheduled time?

(Sep 08 may12)

11. From the activity details given below, determine the optimal project duration and optimal project cost.

Activity	Norman			
Crash Time (days)	Cost in Rs.	Time(days)	Cost in Rs.	
1-2	8	100	6	200
1-3	4	150	2	350
2-4	2	50	1	90
2-5	10	100	5	400
3-4	5	100	1	100
4-5	3	80	1	100

12. The following are the activities identified in scheduling the time required to install an improved local area network (LAN). Draw the PERT network and identify the critical path.

(May 08)

13. The following table gives required information of a project

(May 08)

The indirect cost is Rs.650 per day. Determine the optimum cost and time for the project.

14. You are given the following data: (May 08)

- Draw a network diagram after determining
- expected task time and their variance i.
- ii. earliest and latest expected time to reach each node,
- iii. critical path and
- iv. probability of completing the project in 48 days.
- 15. The following table lists the jobs of a network along with the time estimates.

(May 08)i. Draw the pro

- What is the approximate probability that jobs on the critical path will be completed by the due date of 35 days
- iii. What is your estimate of the probability that the entire project will be com-pleted by the due date?
- iv. What due date has 90% of chance of being met?
- 16. The following table gives the information relating to a project. By using the given data calculate the optimum duration of the project. Where indirect cost is estimated Rs.2000 per day. (May 08)
- 17. What do you mean by crashing a network? State step by step procedure of crashing (May 08)
- 18. What is the importance of Cost Analysis? Account for different types of cost citing examples. (May 08)
- 19. The following table gives the data relating to a project Indirect cost per week Rs.1,000. By using iterative procedure, d i.
 - The optimum project completion time (Sep 07)
 - Critical path(s) and ii.
 - iii. Minimum total costofproject completion.
- Draw the network for the following project; it is further given that project completion time is 42 20. days. Find the find the project duration. Also identify the critical path. (Sep 07)
- 21. Global Tele shopping Ltd., is a high technology retailer and mail order business. In order to improve its process the company decides to install a new PC system to manage its entire operations (i.e payroll, accounts, inventory)> Terminals at each of many stores will be networked for fast dependable service. The specific activities that will need to be accomplished before the system is up and running is listed below. Draw a network diagramme for the project and determine the critical path and duration of the project

(Sep 07)

22. Explain and illustrate what you understand by network analysis. How would you compare PERT with CPM?

(Sep, May 07, 06)

(Sep 07)

Given the following data, work out the minimum duration of the project and corresponding cost. 23.

Activit	y Job	Time	Cost			
A	1-2	10	6	400	600	
В	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	

24. Draw the network for the following project, identify (Sep 07)

- i. the critical path,
- ii. find the project duration and
- iii. indicateslackateach event.

Activity	0-1	1-3	1-2	2-3	1-4	3-4	4-5
Time(months)	3	16	6	8	10	5	3

Draw the network for the following project, identify (May 07, Mar 06) 25. the critical path, ii. find the project duration and iii. indicate slack at each event. 0 - 11-2 Activity 1-3 2-3 1-4 3-4 4-5 16 10 5 Time(months) 3 6 8 3 26. The following details relate to a small project with the help of which compute the probability of completion of project within scheduled time. The expected time of each activity is as follows: 8 SI. No. 1 3 6 Activity 1-2 1-3 2-4 3-4 4-5 5-64 3-5 5-7 6-7 12 Activity 6 8 7 3 5 11 10 27. i. Draw a Gantt Chart for the following programme and prepare a milestone chart for the Gantt Chart ii. Explain the limitations of Gantt chart. 28. Given the following data, work out the minimum duration of the project and coresponding cost. 29. i. What are the objectives of network analysis? (Mar 06) ii. What are the applications of network analysis? iii. State the differences between PERT and CPM. 30. Write a note on optimization of project cost and project duration. Illustrate your answer.(Mar 06) 31. Explain in details about constructing a network diagram. What are the Points to be kept in mind for drawing network. (Mar 06) 32. Write a critical note on project crashing. (Mar 06) With the help of the following data, draw the net work. (Mar 06, May 06) i. draw the network ii. Find project duration for the following project and Identify the critical path iii. Activity 1-2 1-3 1-4 2-4 2-5 3-4 3-7 4-6 4-7 5-7 5-6 Time (months) 4 6 12 7 11 7 8 8 13 4 34. "PERT provides the framework with which a project can be described, scheduled and then controlled." Discuss. 35. A maintenance foreman has given the following estimate of time and cost for jobs in a motor overhaul project. Determine the optimum duration and cost. (Mar 06, 07, Apr 13) Job Predecessor Normal Cost Crash Cost Cost(Rs.) Days Cost(Rs.) Days Disassemble motor 8 160 6 200 7 Clean and paint frame 80 4 190 Α Rewind armature 12 200 5 380 Α

5

6

220

100

140

100

9

6

Α

B,C,D

Replace bearings

Assemble and inspect motor

The indirect cost is Rs. 150/-hr.

- 36. What is meant by 'crashing' of network? Give step by step procedure for crashing.

 Illustrate with an example of your choice.(N) (Mar 06,Nov 05)
- 37. A manufacturing company is planning to introduce a new product commercially. The list of activities to be carried out with the corresponding duration of time in weeks is listed below. (May 06, Nov 05)

10 110	ica below.		(1114) 00,1101		
Activ	rity description	duration	immediate predecessor		
A	initial discussions	3	-		
В	product design	11	A		
C	market survey 9	A			
D	market evaluation	2	C		
E	product costing	5	В		
F	Sales plan 6	C			
G	Product pricing	2	D,E		
Н	Prototype construction	11	F,G		
I	Market information preparation	8	В		
J	Prototype testing	9	H,I		

Draw the network to represent various activities of the project, determine the min-imum duration of the project.

38. Following data relates to a certain project.

(May 06) Activity Optimistic time (t₀) Most likely time (t_m) Pessimistic time (t_n) 1-2 2 14 1-3 3 12 21 2-4 5 14 17 3-4 2 5 8 4-5 7 1 4 3-5 15 30

- i. Construct the network,
- ii. find the project,
- iii. identify the critical path, and
- iv. find slack at each event.
- 39. The following is the list of events found in the process of organizing a student's convention. Identify the logical sequence and fix the duration as per the estimate. Draw a PERT network, with assumed data
 - i. Set convention date.

(May 06)

- ii. Set convention location.
- iii. Select convention chairman
- iv. Select convention facilities.
- v. Develop convention programme
- vi. Select convention speakers
- vii. Set convention cost
- viii. Notify the members of convention programme
- ix. Print programme
- x. Notify convention facility of desired setup of each meeting room
- xi. Select banquet menu
- xii Determine recipient of outstanding member award
- xiii Prepare citation for outstanding member award
- xiv Determine honorarium for speakers
- xv Arrange for registration
- xvi Make boarding and lodging arrangements

xvii Arrange transportation from airport xviii

Await convention

40. i. Discuss the features of functional organization.

ii. How is different from other forms of business structures?

(Nov 05)

UNIT-VII

- 1 a) What is SWOT analysis? What is it significant? (jun 13)
 - b) Why do you need strategies? Explain how is beneficial to modern industry?
- 2. What are the stages of stagier formulations and implementation? (Dec 12)
- 3. What is environmental scanning and what are the factors eecting external environment .

(May 10)

4. Can strategic management fail? Can it be prevented? (May 10)

 According to Porter's model, what determines the competition intensity in an industry? With respect to arm that you know, identify the key strategic factors in its external environment.

(May 10)

6. What are the criteria used to determine the corporate strengths and weaknesses? Use these criteria for a company you are familiar with to identify its strengths and weaknesses. Suggest corrective actions.

(May 10)

- 7. What is environmental scanning and what are the factors effecting external environment. (Sep 08)
- 8. As a strategic manager, develop a realistic model for the evaluation and control process in the Indian context. Discuss. (Sep 08)
- 9. Can strategic management fail? Can it be prevented? (Sep 08)
- 10. What do you mean by mission and objectives of the organization? Explain with examples? (Sep 08)
- 11. How do you carry out SWOT Analysis for a manufacturing unit? Explain. (May 08, 06)
- 12. What are the external factors to be considered while assessing opportunities and threats?

(May 08, 06)

13. What do you understand by strategic business unit? Discuss its role and relevance in corporate planning.

(May 08,Dec 02)

- 14. i. Explain the concept nature and scope of corporate planning.
 - ii. What are the advantages and limitations of corporate planning.

(May 08)

What are the criteria used to determine the corporate strengths and weaknesses?

Use these criteria for a company you are familiar with to identify its strengths and weaknesses.

Suggest corrective actions.

(May 08)

16. State the significance of corporate planning. What is the need for planning?

(May 08)

17. 18. 19.	Strategic alliances are temporary. Do you agree? Justify. What is the relationship between corporate governance and social responsibilitentify the factors that are to be diagnosed in external and integrated of a business organization.	
20.	What is SWOT analysis? What is it significance?	(May 07, Mar 06, apr 13)
21.	What are the factors of external and internal environmental to be considered strategy? Explain.	for formulating the (May 07, Nov/Dec 05)
22.	How do you formulate and implement strategy? Explain.	(May 06)
23.	How do you formulate and implement strategy? Explain.	(May 06)
24.	What is environmental scaning? Why is it carried out?	(May 06)
25. i. ii.	Explain the following: Strategy variations Generic strategy Alternatives.	(May 06)
26.	Design a merit rating form for high skilled category of workers factory.	of medium sized
27.	(Mar 06) What is recruitment? Evaluate different the sources of recruitment	. (Mar 09,10)
	Write short notes on the following: Strategic alliances Strategic choice Allocation of resources and formulation of organization structure. What is SWOT analysis? How to develop strategic alternative sin light of SWO (Mar 06, June 02)	(Mar 06) OT analysis?
30.	What is strategic business unit and what is it role and relevant planning? Illustrate. (Nov 05)	ance in corporate
UNIT-V	VIII	
b) c) d) V 2. a) Sta b) Ex other	Write short note (3) Kaizen Capability Maturity Model (CMM) Business Process Value Chain Analysis ate and explain various functions of human resource management (HRM) explain the factor comparison method of job evaluation and state its advantages at (dec 12)	
3.	What do you mean by Balanced Score Card? What are its advantages?	(May
10) 4.	What do you understand by total quality management? How does this concept	

dier from quality control techniques? (May 10) 5. Explain the seven principles of Michael Hammer relating to re-engineering. (May 10) 6. What do you understand by total quality management? How does this concept differ from quality control techniques? (Sep 10, may12) 7. What is portfolio management? Discuss various key aspect in investment Decisions. (Sep 08) 8. Explain the philosophy behind Total quality management customer satisfaction and continuous improvement. What are the objectives of TOM? (Sep 08) 9. Write short notes on: i. Capability Maturity Model (CMM) ii. Just-in-Time (JIT) iii. Balanced Scored Card. (Sep 08) 10 What are some of the guidelines that can be followed for the purpose of improving MIS? 11. What is Material Requirement Planning (MRP) Illustrate. 12. Explain the seven principles of Michael Hammer relating to re-engineering. 13. What are the different methods TQM? Explain any two methods in briefly 14. Make a list of the items and services that are bring outsourced. 15. "Anything and everything can be outsourced". Explain with suitable illustration. 16. Define the terms quality, quality creation, quality control, and quality assurance. Bring out importance of quality. 17. Explain the quality control techniques 18. What is quality? How is it ensured? 19. What is QC? Discuss the formation and working of QC in an engineering industry? 20. Explain the term inventroy. How would you classifiy it? 21. Explain, how you would carryout material requirement planning? State the basic steps involved in setting up MRP. 22. Discuss briefly the SQC procdures by charts and diagrams. What is meant by Quality Cycle? Is there any additional benefit derived from this? 23. Define MIS? Give out objectives functions of the MIS? 24. Distinguish between Data processing system and Management information system. 25. Give chracteristic features of computer systems 26. What is resource requiements planning? Is it the same as Rough-cut capacity planning?

- 27. Discuss the role of MPS, MRP and CRP in resource requirement planning
- 28. What are the objectives of MRP? Explain how each of these objectives to achieved.
- 29. Discuss the following issues used in MRP system
 - i. Lot sizing
 - ii. Pegging
 - iii. Cycle counting
 - iv. Time fence
- 30. List out problems faced in using the MRP system?
- 31. Distiguish between regenerative MRP and net change MRP?
- 32. What is a closed loop MRP. What are its uses.
- 33. What is ERP.Listout features of ERP. Explain application of ERP
- 34. Why do you think computers have a different impact on managers at various organisationallevels.
- 35. Information technology is being used to restructure work by transforming business process. Explain.
- 36. How can information technology help in re-engineering business process?
- 37. How information technology re-engineered business processes at several levels of business.
- 38. What in BPO?
- 39. What is the business philsophy behind outsourcing?
- 40. What are the situational factors that paved way to the emergence of BPO?
- 41. BPO: Its impact on the western and asian markets.
- 42. "The growth of BPO never disturbed the global market trends" enumerate.
- 43. BPO: A signficant development without boders explain
- 44. Do you thick that outsourceing has restructed the business ethics and business psyche:
- 45. BPO offers a prethora of opportunties and evenues as letter world give reasons.
- 46. What do you mean by Balanced Score Card? What are its advantages?