

S.No. 7122

MBA, Second Semester, May 2017

Organisational Behaviour

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 What is behavioural theory of organisation? How does it differ from contingency theory?
- Q. 2 What are the challenges and opportunities for OB? How we can develop a model for OB?

UNIT-II

- Q. 3 What are the determinants of Personality? Explain its theories.
- Q. 4 Write short notes on the following:
i) Behavioural implications of learning
ii) Transactional Analysis

UNIT-III

- Q. 5 "Different leadership styles exist among leaders in different times and in different situations." Discuss and give the important leadership styles.
- Q. 6 What are trait theories of leadership? Describe its merits and demerits.

UNIT-IV

- Q. 7 What is organisational conflict? How conflicts arise in organisations? How does it affect the organisation?
- Q. 8 Write short notes on the following:
i) Strategies for conflict resolution
ii) Role of conflict in organisation

UNIT-IV

- Q. 9 Explain types of stress. What are the physiological and psychological sources of stress?
- Q. 10 Write short notes on the following:
i) Stress and job performance
ii) Role of counselling in stress management

S.No. 11048

MBA, Fourth Semester, May 2017

International Marketing

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 "International marketing has brought convergence in the tastes and preferences of the consumers around the world." Critically evaluate the statement, identify the reasons and motivation underlying international business.
- Q. 2 Describe in detail the various modes for a firm to enter International Marketing.

UNIT-II

- Q. 3 Write a detailed note on Market selection and segmentation with respect to International Marketing.
- Q. 4 Briefly describe the process of International Marketing Mix with suitable example.

UNIT-III

- Q. 5 Explain the concept of International Product Life Cycle (IPLC) with appropriate example?
- Q. 6 Define Packaging. Explain factors for Package Design in International Markets.

UNIT-IV

- Q. 7 What are the International Distribution Channels? Explain the policies influencing International Distribution.
- Q. 8 Explain advertising and media strategies of International marketing.

UNIT-IV

- Q. 9 Explain the concept of 'death of distance'. How this is related with the modern communication tools.
- Q. 10 Write a detailed note about the relationship marketing through information technology.

S.No. 1149

MBA, Fourth Semester, May 2017

Strategic Marketing

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 "Strategic marketing drives its nature from the strategic management process". Discuss.
- Q. 2 Describe in detail the process of strategic Marketing? What is trend of strategic marketing in Indian organisations?

UNIT-II

- Q. 3 What are the strategies followed by market leaders and challengers? Explain.
- Q. 4 Briefly describe the process of analyzing the shareholder's value with suitable example.

UNIT-III

- Q. 5 Discuss in detail about the pricing strategies adopted by the companies for new product with appropriate example?
- Q. 6 Define competitive advantage. Explain the advantage and factors for sustaining it in the Indian Market Environment.

UNIT-IV

- Q. 7 Discuss in detail about BCG Matrix? Explain the usage of the matrix for multi-product strategies.
- Q. 8 What is the role of Portfolio Analysis in strategic choice? Explain with suitable examples.

UNIT-IV

- Q. 9 Explain the Ansoff's set of growth strategies as applied in marketing.
- Q. 10 Explain the main challenges faced in organizations in the implementation of marketing strategies.

S.No. 12048

MBA, Fourth Semester, May 2017

Compensation Management

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 Define compensation management. Explain various components of compensation management. 16
- Q. 2 Discuss the strategic importance and goals of compensation management. 16

UNIT-II

- Q. 3 Define compensation strategy. Discuss internal equity in compensation system. How internal equity helps in improving employee morale and satisfaction. 16
- Q. 4 What are Fringe benefits? What are the objectives of Fringe benefits? How Fringe benefits are decided in large organisations. 16

UNIT-III

- Q. 5 What is compensation package. Discuss the process of fixing the compensation package of Chief Executives. 16
- Q. 6 Explain the concept of performance linked compensation. How compensations package for sales executives is fixed? 16

UNIT-IV

- Q. 7 Explain the concept of workforce redundancy. Discuss various approaches to deal with work redundancy. How effective are these approaches? 16

P.T.O.

Q. 8 What are wages. Explain various types of wages under the minimum wages Act 1948. Discuss various provisions of this Act. 16

UNIT-IV

Q. 9 Write a note on Pay Commissions. Explain the process of constituting a pay commission. What are the objectives of pay commission? 16

Q. 10 Explain in detail the elements of catpatriates compensation package. What are its objectives?16

S.No. 7052

MBA, Fourth Semester, May 2017
Entrepreneurship Development

Time: 3 Hours

Marks:70

Note: Part A of question paper consists of 8 questions carrying 5 marks each. Part B consists of 5 questions of 10 marks each. A student is required to attempt any 8 questions from Part A and any 3 from Part B.

Part-A

1. Explain the term value analysis? How it is carried out?
2. Write short notes near to 150 words on Heuristics.
3. Distinguish between creativity and innovation.
4. Describe the functions of an entrepreneur.
5. What are the reasons behind the failure of business?
6. Discuss the process involved in project identification.
7. What do you mean by woman entrepreneurship? Describe different categories of woman entrepreneurship.
8. How will you select the business idea?
9. Write down the merits and demerits of franchising.
10. Discuss the role of SIDBI to motivate the entrepreneurship in India.

P.T.O.

Part-B

1. List out the Entrepreneurship development programme available in India. Describe any two programmes in detail.
 2. As an entrepreneur you plan to start a small business, in this regard how would you choose the appropriate form of ownership pattern for your enterprise?
 3. Explain the characteristics of a creative person?
What makes an entrepreneur creative?
 4. Entrepreneurship is a process of giving birth to an enterprise. Examine the statement.
 5. Explain the sources of concessional finance available to woman entrepreneur in India.
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S.No. 7052

MBA, Fourth Semester, May 2017
Entrepreneurship Development

Time: 3 Hours

Marks:70

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Part-A

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P.T.O.

Part-B

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3. Explain the characteristics of a creative person?
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5. Explain the sources of concessional finance available to woman entrepreneur in India.

S.No. 12044

MBA, Fourth Semester, May 2017
Portfolio Management

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 Explain the meaning and objective of portfolio. Which factors should be considered in constructing a portfolio?
- Q. 2 Using suitable example, explain and illustrate the traditional approach to portfolio. What are the merits and demerits of this approach?

UNIT-II

- Q. 3 You are given the following data:

	Stock	
	A	B
Mean return (%)	12	16
Standard deviation (%)	6	10
Weights	0.4	0.6

Find the portfolio risk and return if

(i) $\gamma_{AB} = -0.6$ and (ii) $\gamma_{AB} = 0.8$

- Q. 4 Explain the meaning and importance of efficient frontier. How is it determined? Illustrate.

UNIT-III

- Q. 5 Write a note on the assumptions, mechanism and benefits of Sharpe single index model.
- Q. 6 What are the differences between SML and CML? How are they drawn? What is their utility in portfolio management?

UNIT-IV

- Q. 7 Explain and illustrate APT. How is an optimal portfolio selected using APT.

P.T.O.

Q. 8 Compare and contrast APT and CAPM. What are the advantages of APT over CAPM?

UNIT-IV

Q. 9 Using an example, explain and illustrate variable ratio plan. What are the advantages and limitations of this plan?

Q. 10 Discuss the meaning of need for and constraints in portfolio management.

S.No. 12042

MBA, Fourth Semester, May 2017
Financial Derivatives

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 Explain the term financial derivatives. What are their features. Which factors have contributed to the growth of derivatives market?
- Q. 2 What are the specifications of the futures contract? Using suitable examples, explain the delivery process in futures market.

UNIT-II

- Q. 3 Explain the features and types of forward contracts. Discuss the pricing mechanism of forward contract.
- Q. 4 Write notes on:
a) Need for regulating futures market
b) Differences between future contracts and forward contracts

UNIT-III

- Q. 5 Explain the meaning of and need for hedging. Which factors should be considered while devising a hedging strategy?
- Q. 6 What are the features of stock index futures? Using an example, illustrate how a stock index future contract can be used for hedging purpose.

UNIT-IV

- Q. 7 Highlight the importance of foreign exchange rates in derivatives market. Which are the determinants of foreign currency futures?

P.T.O.

Q. 8 Discuss in detail the currency forward buying and selling rates. Also describe the structure of currency forward market in India.

UNIT-IV

Q. 9 Discuss the features of swaps. Why should a person invest in swaps?

Q. 10 Distinguish between exchange trade options and OTC traded options. Which of them are more popular? Why?

S.No. 12041

MBA, Fourth Semester, May 2017

Entrepreneurship Development

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 Who is an entrepreneur? Which skills and qualities should an entrepreneur have?
- Q. 2 Which factors should be considered while setting-up a new business? Which can be the potential problems for a new business?

UNIT-II

- Q. 3 Define creativity and highlight its importance in entrepreneurship. Also describe the process of entrepreneurship.
- Q. 4 Differentiate between neuristics and brainstorming. How do they help in identifying new business opportunities?

UNIT-III

- Q. 5 Discuss the benefits and limitations of business planning.
- Q. 6 What is feasibility study? How is it prepared? What purpose does it serve?

UNIT-IV

- Q. 7 Discuss the steps involved in setting-up a new business. Which factors affect the growth of new business?
- Q. 8 Write a note on motives for, forms of and advantages of mergers.

P.T.O.

UNIT-IV

- Q. 9 Explain the objectives of entrepreneurship development programmes. Which factors should be considered while designing them?
- Q. 10 Write a note on current trends in entrepreneurship in India. How can financial institutions help in accelerating the pace of entrepreneurship?

S.No. 12047

MBA, Fourth Semester, May 2017

Human Resource Planning & Development

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 Define Human Resource Planning. Explain its process and significance in the organisations.
- Q. 2 Explain various perspectives of HRP. Discuss the Macro HRP in detail and its objectives.

UNIT-II

- Q. 3 What is Scenario Planning? Explain the method of Assessing and demand of people in organisations? What factors influence the demand of people?
- Q. 4 Explain various Techniques of Manpower supply forecasting. Why forecasting is required in one organisations?

UNIT-III

- Q. 5 Explain the concept of Resource Plans. What are the important components of HR Plans? Explain quantitative HR Plans in detail.
- Q. 6 Define Training and development. What are the objectives of Training? How Training and development Plans are ascertained?

UNIT-IV

- Q. 7 Write a detailed note on Management Development. Discuss its scope and significance.
- Q. 8 Explain the process of structuring management development plans in the organisations. What are the factors influencing MDP.

P.T.O.

UNIT-IV

- Q. 9 Define talent and Talent Management. Discuss the Techniques and Practices of Talent Management.
- Q. 10 Explain the concept of competency. What are the objectives of competency mapping. How competency mapping helps in competency development.
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S.No. 12043

MBA, Fourth Semester, May 2017
Project Management

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 Highlight the importance of capital expenditure decisions. How do they help in increasing the value of a firm?
- Q. 2 Why should a firm monitor the environment? How do Socio-demographic factors affect a firm?

UNIT-II

- Q. 3 Discuss the major sources of secondary information available in India. How should the secondary information be evaluated?
- Q. 4 Elaborate the components of project cost. Also discuss the major components of cost of production.

UNIT-III

- Q. 5 Explain the concept and measurement of risk. Briefly discuss sensitivity analysis.
- Q. 6 Write a note on the five stages of appraisal as per UNIDO approach.

P.T.O

UNIT-IV

Q. 7 Durations of various activities of a project are as given below:

Activity	1-2	1-3	1-4	2-4	3-4	4-5	5-7	2-5	4-7
Duration (week)	4	2	3	5	6	2	3	1	5

Draw the network, identify the critical path and determine EST, EFT, LST and LFT for each activity.

Q. 8 Write notes on:

- a) Economic rate of return and book rate of return
- b) Performance review

UNIT-IV

Q. 9 Highlight the need for environmental appraisal of projects. Discuss the stages of environmental appraisal.

Q. 10 Discuss the meaning and benefits of consortium financing. Which are the major issues involved in consortium financing?

S.No. 12045

MBA, Fourth Semester, May 2017
Marketing Communication Strategy

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 What is the role of integrated marketing communication in the marketing process? Select any well-known brand and discuss how it uses IMC to give consistent message.
- Q. 2 What do you mean by marketing communication mix? Explain its key characteristics and the factors which affect the setting of marketing communication mix.

UNIT-II

- Q. 3 Critically examine the relative advantages and disadvantages of different alternative media for advertising. What factors should be kept in mind while planning for the advertising media.
- Q. 4 Highlight the importance of measuring the advertising effectiveness. What are various methods and techniques commonly employed in measuring advertising effectiveness?

P.T.O

UNIT-III

- Q. 5 What is sales promotion? Explain in detail various types of consumer oriented sales promotion with suitable examples.
- Q. 6 "Effective communication is the essence of promotion." Discuss. Also write the difference between 'push policy' and 'pull policy' of promotion.

UNIT-IV

- Q. 7 What is the significance of public relations in today's era of competition? Also enlist various tools of PR used by companies.
- Q. 8 What is PR strategy? How do marketing professionals create PR strategy to make PR decisions around the best way to communicate?

UNIT-IV

- Q. 9 Write notes on the following:
- a) Direct marketing tools and techniques
 - b) Personal selling
- Q. 10 What are the basic steps involved in the process of designing a salesforce? Explain.

S.No. 7126

MBA, Fourth Semester, May 2017

Performance Appraisal and Managerial Effectiveness

Time: 3 Hours

Marks:70

Note: Attempt any eight questions from Section A. Each question carries 5 marks. Attempt any three questions from Section B. Each question carries 10 marks.

Section-A

1. What is reward? Which factors determine it?
2. Explain the concept and parameters of performance.
3. Highlight the nature of performance appraisal.
4. What is 360° feedback method? Explain its merits and limitations.
5. Compare and contrast ranking and paired comparison methods.
6. Define a managerial job. What are its dimensions?
7. What is forced choice method? Does this method has a positive impact on the morale of the work force? Give arguments in support of your answer.
8. Who is an optimizer? How can an effective manager play the role of an optimizer?
9. What are the essentials of self development? Highlight its benefits for an employee.
10. Explain the stages involved in preparing a balance scorecard. What are its features?

Section-B

11. Why should performance be measured? Discuss various approaches for measuring performance.
12. Write a note on gathering performance information, its analysis and interpretive the results.
13. What are the essentials of a managerial job? How should it be designed?
14. Explain the meaning and benefits of knowledge management. How does it help in fostering creativity?
15. Write notes on:
 - c. Developing managerial skills
 - d. Career development

S.No. 12046

MBA, Fourth Semester, May 2017

Management Training and Development

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 Defferentiate between training and development. Justify the need of training for the growth of people and organization.
- Q. 2 What are various types of training? Discuss their merits and demerits.

UNIT-II

- Q. 3 What is training need analysis? Is it always necessary? Explain its process in detail.
- Q. 4 Why is it important to evaluate training? Is it really possible to evaluate training?

UNIT-III

- Q. 5 Explain the importance of a good training programme. What are the key considerations in the design of a training progamme to make it effective?
- Q. 6 Selection of a trainer is very important task. Why?

UNIT-IV

- Q. 7 How important are learning environment, pre-training communication and motivation of trainees for the success of training programmes? Explain.
- Q. 8 State the meaning and nature of the transfer of training. What are the factors which affect the transfer of training at work places?

P.T.O.

UNIT-IV

- Q. 9 How do the organization interventions (supervisor support, peer support, trainer support, reward systems, climate etc.) influence the transfer of training?
- Q. 10 Why is it desirable to use training aids? What considerations would you have while planning the use of training aids?

Name of the course – MBA IV Semester

Sr No: 12051

Name of the subject: Service Marketing

Paper Code: MM 403

Time: 3 hrs

Max. Marks: 80

Note: Attempt five questions in all, selecting one question from each unit.

All questions carry equal marks.

UNIT I

1. Explain classification of services and discuss growing importance of service sector in the Indian economy.

OR

2. Explain service marketing management process and its importance in the services marketing.

UNIT II

3. Why understanding of consumer behaviour is important in services? Discuss role of perception and expectation of consumer in decision making.

OR

4. What is the concept of service recovery in service failures and explain GAPs model of service quality.

UNIT III

5. What is services design and development? Why service positioning is important in the competitive corporate environment?

OR

6. Explain employee and customer role in service delivery and discuss the importance of managing service personnel.

UNIT IV

7. Select service marketing strategies for Hospitality services and how these can be applied in the market.

OR

8. What is the future of Health care and wellness services in tourism sector? Discuss importance of Health tourism in India.

UNIT V

9. Discuss recent trends in international marketing of services and explain reasons for selecting global marketing of services.

OR

10. Why organizing for global marketing is important as services strategy? Discuss key decisions required for global marketer in services.

Time: 3 Hours

Marks:80

Note: Attempt five questions in all, selecting one question from each unit. All questions carry equal marks.

UNIT-I

- Q. 1 How is a job system different from the batch production system? Also explain the role of the operations managers in India today. 16
- Q. 2 Write short notes on the following: 8,8
- Scope of operations management
 - Facility location

UNIT-II

- Q. 3 What are the factors affecting the location planning of facilities? Also explain the objectives of facility layouts. 16
- Q. 4 Write short notes on the following: 8,8
- Material Handling Equipments
 - Location Analysis Techniques

UNIT-III

- Q. 5 What is PPC? Explain its objectives and functions in detail. 16
- Q. 6 Write short notes on the following: 8,8
- Maintenance Management
 - Capacity Planning

UNIT-IV

- Q. 7 What is Inventory Management? Explain its factors, objectives & Process. 16
- Q. 8 What is work study? Explain its different methods and also explain work measurement? 16

P.T.O.

UNIT-IV

- Q. 9 What are the criteria or process of statistical quality control? Describe the necessity of different quality standards. 16
- Q. 10 Write short notes on the following: 8,8
- i) Acceptance Sampling
 - ii) TQM

Management of Financial Services

MM: 80

Time: 3 Hrs

Note: Attempt five questions selecting one question from each unit. Each question carries equal marks.

Unit-I

Q.1. What do you mean by Financial Services? Discuss the nature, types and importance of financial services in detail.

Q.2. Write Notes on the following:

- i) Leasing
- ii) Factoring

Unit-II

Q.3. What do you understand by Hire Purchase? Discuss the characteristics of Hire Purchase. Also explain the financial evaluation of Hire Purchase Finance in detail.

Q.4. Write Notes on the following:

- i) Consumer Credit
- ii) Housing Finance

Unit-III

Q.5. What do you mean by Credit Rating? Discuss the benefits of Credit Rating to investors and companies in detail with suitable example.

Q.6. What do you understand by Credit Cards? Discuss the types and significance of Credit Card in a cashless economy. Also give an overview of Credit Card Business in India.

Unit-IV

Q.7. Write Notes on the following:

- i) Book Building
- ii) Bought out Deals

Q.8. What do you mean by Securitization? Discuss the mechanism, advantages and disadvantages of Securitization in detail.

Unit-V

Q.9. What do you mean by Venture Capital? Discuss the features of Venture Capital. Also explain the role of Venture Capital in the development of a country like India.

Q.10. Write Notes on the following:

- i) Depository System
- ii) Bought out Deals

Paper Code: HRM-406

Subject Name: Performance Management and Managerial Effectiveness

Time: 3 Hrs.

M. Marks: 80

Note: Attempt **Five** questions in all, selecting **One** question from each unit.
All questions carry equal marks.

Unit-1

1. Explain benefits of linking performance management with Reward system and discuss importance of strategic planning in the process of performance management.
- OR
2. Discuss concept of performance and explain approaches to measuring performance.

Unit-2

3. What is the relation between concept of performance and potential appraisal? Discuss the benefits of gathering performance information for appraisal.
4. Explain methods for measuring results and behavior. Discuss their significance in the performance management in the organization.

Unit-3

5. What are the dimension of managerial Job and explain role of designing managerial job and skill development.
6. Explain role of managerial motivation in the performance management and discuss criteria of measuring managerial effectiveness.

Unit-4

7. What is 360 degree feedback? Also discuss career development as a measure for performance appraisal.
8. Explain different managerial styles and discuss the meaning of effective manager as an optimizer.

Unit-5

9. What is the concept of self development? Discuss the advantage of developing competitive spirit in the organization.
10. Why Knowledge management is important and explain role of fostering creativity in performance management.

System Programming

Maximum Marks : 80

Time : 3 hours

Attempt five Question in all, Slecting One Question from each unit. Question No. First is compulsory

Q.1)

8x3=24

- a) Write any three goals of System Programming.
- b) Define Symbol Table.
- c) What do you understand by the term "Macro Expansion"?
- d) Discuss various elements of assembly language.
- e) Define Dynamic Linking.
- f) Write Chomsky Hierarchy of Languages.
- g) Name various data structures of compilers.
- h) Define Impure interpreters.

Unit – I

2. Compare and Contrast User Centric and System Centric view of system software.
3. Discuss various types of Language Processor.

Unit – II

4. Compare and Contrast User Centric and System Centric view of system software.
5. Explain the design of Macro Processor in detail.

Unit – III

6. What do you understand by Loaders? Discuss Absolute and Relocating Loader.
7. Compare and Contrast Top down and Bottom Up Parsing.

Unit – IV

8. Discuss Memory Allocation. What are the concepts of Static and Dynamic Memory Allocation and Deallocation.
9. What is Code Optimization? Discuss Local and Global Optimization.

Principles of Programming Languages

Maximum Marks : 80

Time : 3 hours

Attempt five Question in all, Slecting One Question from each unit. Question No. First is compulsory

Q.1)

8x3=24

- a) Discuss role of Programming Languages.
- b) What do you understand by term "General Parsing"
- c) Define Finite State Automata.
- d) Explain the term Composite Data Types with example.
- e) Write short note on Derived Class and Abstract Class
- f) What do you understand by term inheritance.
- g) Explore Static and Dynamic Scoping.
- h) Discuss the term "Parallel Programming".

Unit – I

2. Discuss the relationship between Translators and Virtual Architecture.
3. Explain Recursive Descent Parsing with help of example.

Unit – II

4. Construct Push down automata for the language $L=\{a^nba^n \mid n \geq 0\}$
5. Design a Finite State Automata for language consist of even no. of 0 and even no of 1.

Unit – III

6. What is polymorphism? Discuss various types of polymorphism with example.
7. Compare Implicit and Explicit Sequence Control with help of example.

Unit – IV

8. Discuss Static Storage and Heap Storage Management in detail.
9. What is Applet? How is it important for user ? What are various features of applets?

Note: Attempt five questions in all, selecting one question from each of the four units. Q. No. 1 is compulsory.

- Q. 1 8x3=24
 - i. In a sense, Macro expansion is very similar to subroutine calls during program execution. Explain the similarities and differences between them.
 - ii. Discuss the pass structure of assemblers. Mention few cousins of compiler.
 - iv. List the various error recovery strategies for a lexical analysis.
 - v. What is shift-reduce conflict?
 - vi. Eliminate left recursion from the grammar $S \rightarrow Aa/b, A \rightarrow Ac/Sd/e$.
 - vii. Differentiate between basic block and flow graph.
 - viii. Mention the properties that a code generator should possess.

UNIT-I

- Q. 2 a) Draw a flow chart or write an algorithm for pass-II of multi-assembler. How many passes can a multi-pass assembler have? 8
- b) Explain data structure used for Macro processing. 6
- Q. 3 a) Write down the evaluation of system software. 6
- b) Explain recursive macro expansion with an example. 8

UNIT-II

- Q. 4 a) With an example, explain how linking and loading is done by loader. 7

P.T.O.

- b) Explain the need of grouping the phases of compiler. 7
- Q. 5 a) What is a lexical analyser. Discuss the design and construction technique of a lexical analyser. 7
- b) Mention any four compiler construction tools with their benefits and drawbacks. 7

UNIT-III

- Q. 6 a) What is a bottom up parsing? With the help of an example, describe shift-reduce parser using stack. 8
- b) Check whether the following grammar is OPG (Operator Precedence Grammar) 6
 $E \rightarrow E+T|T$
 $E \rightarrow T+F/F$
 $E \rightarrow (E) | id$
- Q. 7 Explain the terms closure, goto, kernel items and non-kernel items with reference to parser. Write down the procedure to construct SLR passing table. 14

UNIT-IV

- Q. 8 What are the problems in code generations? Discuss register allocation and assignment strategies. 14
- Q. 9 Code optimization is an important phase of compiler, which becomes sophisticated with the use of latest algorithms. Discuss various code optimization schemes available in various compilers with the help of examples. 14

Set 2

MCA 5th Semester May 2017

S.No 9044

MCA-14-53 Linux And Shell Programming

MM 80

Time 3 hours

Note: Attempt any five questions in all. Question No. 1 is compulsory.

- Q1 a) What is boot block.
b) How do you access modification time of files.
c) Which rc file is used for system startup.
d) How do you create a static library.
e) What is gdb.
f) How is ownership of a file changed.
g) What is command to get help on section a command belongs to using man.
h) How to bring a background job to foreground.
i) State an example using filters.
j) How to create file name substitution.
- (10)
- Q2 a) How many init and run levels exist and what rc and init files are required for those levels.
b) Describe the file system of linux.
- (7)
(7)
- Q3 a) Explain the file and disk related commands.
b) Describe the directory tree commonly used in linux.
- (7)
(7)
- Q4 a) Which C compiler option is used to create a shared library. Quote an example.
b) Describe dynamic loaders. How is a program loaded in memory.
- (7)
(7)
- Q5 a) How do you run a program in debugger(gdb). What type of errors are removed with debugger.
b) Describe the layout of C program in memory.
- (7)
(7)
- Q6 a) Explain the procedure of creating and mounting file systems.
b) How are networks(LAN) created.
- (7)
(7)
- Q7 a) Explain various environment variables used in linux systems. How do you modify their values.
b) What is the difference between pause and abort commands. Give examples.
- (7)
(7)
- Q8 a) Write a shell script to count the occurrences of a given pattern in a file.
b) Write a shell script to find if file exists in a directory and copy the file if it doesnot exist.
- (7)
(7)
- Q9 a) What is the difference between static and dynamic libraries.
b) Write a shell script for administrators to automate the task of cleaning the temporary files.
- (7)
(7)