



मैट्स विश्वविद्यालय मुक्त एवं दूरवर्ती शिक्षा कार्यक्रम आरंग, रायपुर (छ0ग0)

MATS UNIVERSITY OPEN & DISTANCE LEARNING CENTRE ARANG, RAIPUR (C.G.)

सत्रीय कार्य / Assignment Work – 2013-14

M.Sc (CS) FINAL YEAR

Max Marks – 30

Min Marks-12

निर्देश : सत्रीय कार्य के प्रत्येक विषय में कुल 30 अंक हैं। सभी प्रश्नों के अंक समान होंगे। सभी प्रश्न हल कीजिए।
(Assignment Work of each paper carries 30 Marks. All questions carry equal marks. Attempt all questions.)

OPERATION RESEARCH- I

1. What is Operation Research ? Explain Characteristics of Operations Research .
2. Explain Linear Programming Model and Properties of Linear Programming model.
3. Explain the methodology of Johnson and Bellman method to solve sequencing problem.
4. Define the term Decision theory. Describe decision models based on the criterion of degree.
5. (a) Define Classification of Simulation Models.
(b) Advantages of Simulation Models.

COMMUNICATION SKILL- II

1. Explain Communication Technology and Media.
2. Define objective of information and Explain importance of information.
3. Define importance of grapevine communication.
4. Write short on the following :-
(i) Sorio- Psychological Barriers (ii) Organizational Barriers (iii) Personal Barriers.
5. Write a note on committee and Define advisory committee and its functions.

OPERATING SYSTEM – III

1. Explain multiprocessing system. What are the advantages of it?
2. What are Schedulers ? What are the different type of schedulers? Explain each of them.
3. Explain the various goals of protection ? Define protection domain and its structure in detail.
4. Explain in brief:
(i) Paging (ii) Segmentation (iii) Swapping (iv) Fragmentation
5. What do you understand by file sharing? Discuss various file operations.

DIGITAL LOGIC - IV

1. What is a floating point number? What are the advantages of it?
2. What are the Basic operation of Boolean algebra?
3. What are the NAND and NOR gates with example?
4. Define combinational circuit with example.
5. Define flip-flop Draw an RS flip-flop using NOR gate and explain its operating principle with truth table.

FORMAL LANGUAGE AND AUTOMATA- V

1. Define the following term w.r.t set:
(i) Disjoint sets (ii) Cardinality (iii) Powerset (iv) Cartesian product
2. Define the term 'Automata' with an example? What are the types of Automata.
3. Define the term: Context-Free Grammar(CFG).Give an example of a CFG.
4. Explain: (i) Empty Production removal (ii) Unit Production removal.
5. What is a Turing machine? What are the types of Turing machines.

COMPUTER GRAPHICS – VI

1. Explain the different graphics standards.
2. Write short notes on:-
(a) Flat Panel Display (b) Plasma Panel Display.
3. What do you mean by composite transformation? How is it useful ?
4. What is windowing and clipping?
5. What is segment? Explain the necessity of segments in the display file.

LINUX SYSTEM ADMINISTRATION- VII

1. What is DNS Basic? Write Advantage of Localized DNS Administration.
2. Write step of Installing ISPConfig ? Write ISPConfig Directory Structure.
3. What is Apache ? Write Apache Configuration file .
4. Explain DHCP ? Write Installing DHCP.
5. What is Virtualization in the Modern Enterprise? Why Virtualization is Popular.

MANAGEMENT INFORMATION SYSTEM – VIII

1. What are the advantages of computer graphics ? Explain the different graphics standards.
2. Describe Display modes? Compare Raster scan and Random Scan display.
3. Discuss merits and demerits of DDA line drawing algorithm.
4. Draw and explain two-dimensional viewing transformation pipeline.
5. Explain various types of parallel projections and perspective projection.
