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

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

सत्रीय कार्य / Assignment Work – 2014-15

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. Trace the history of Operations research.
2. The graphical method for solution is used when the problem deals with 2 variables.
3. What is sequencing problem? Explain types of sequencing problem.
4. Define decision making under certainty and decision making under risk explain with example.
5. What is simulation model? Define classification & limitation of simulation models.

Communication Skills – II

1. What is meant by human interactions through communication?
2. Write a note on
   (1) Education (2) training
3. Differentiate formal and informal communication channels.
4. What – meant by resistance to change.
5. Define advisory committee and its function.

Operating system– III

1. What is process concept? Explain thread.
2. What are schedulers? What are the different types of schedulers? Explain each of them.
3. Explain deadlock detection and recovery.
4. Explain dynamic portioning and external fragmentation.
5. What do you understand by file sharing?

Digital Logic - IV

1. What is a floating point number? What are the advantages of it.
2. What is a logic gate? Define all gates.
3. What are the basic operations of Boolean algebra?
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. Explain string and language with example.
2. Write note on: -
        (a) regular expressions   (b) building regular expression.
3. Explain deterministic automata with an example.
4. Define the term of Context free diagram (CFD) with Example.
5. Explain Turning Machine Model?

Computer graphics - VI

1. Describe different areas of applications of computer graphics.
2. Describe the different types of plotters.
3. Explain the steps in DDA line drawing algorithm.
4. What is point clipping and line clipping?
5. Write a short note on perspective projections.

Linux System Administration - VII

1. Write down Advantages of localized DNS Administration.
2. Define reverse zone file.
3. Explain ISPConfig directory structure .
4. Explain apache & write apache configuration file.
5. Explain DHCP? How to install DHCD.

Management information system -VIII

1. Explain evolution of information system.
2. How can you relate MIS with information resource management?
3. What are basic terminologies for problem solving?
4. Write down advantages and disadvantages of prototyping.
5. Define data dictionary? Explain decision trees.

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