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. I.T. (Final)

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.)

Operations Research
1. What is meant by queue discipline? Name some common queue discipline.
2. Define discrete and continuous systems with an example for each.
3. State the Kuhm Tucker Condition for an NLP with maximization.
4. What is the importance of Operation research for an organization?
5. Give at least example of operation research in real life scenario?

Advanced Java
1. What is the difference between Session bean and Entity bean?
2. Briefly explain JDBC driver types with diagram.
3. What is different between web server and application server?
4. Briefly explain Differentiate between .ear, .jar and .war files?
5. What are the advantages of Servlet over CGI?

Microprocessor and Assembly Language Programming
1. Explain the terms micro operation, control bus, address bus, data bus in computer system.
2. What is difference between microprocessor and micro controller? With Example.
3. What is interrupt in microprocessor? Explain.
4. Comment on different generations of micro processor?
5. Write two names of microprocessors from each generation.

Numerical Methods and Statistical Analysis
1. What are sources of error in approximate solution of function?
2. Discuss the advantages and disadvantages of Randomized block design.
3. Write down the Milne's predictor-corrector formula for solving initial value problem in first order differential equation.
4. Write down the Lagrange's interpolating formula.
5. Write down the Simpson's 1/3 – Rule in numerical integration.

Artificial Intelligence
1. What do you mean by search? Discuss its utility in artificial intelligence.
2. What do you understand by the term knowledge.
3. What is a logic programming? Explain with example.
4. Explain depth-first search giving with suitable example.
5. What is a frame? How the information is represented using it?

Computer Graphics
1. What is computer graphics? Explain the advantage of computer graphics.
2. Briefly explain the frame buffer with help of diagram.
3. Write short notes on: (i) Line   (ii) Vector   (iii) Frame buffer
4. Differentiate Hard copy and Soft copy devices.
5. Write a short note on Printers.

Simulation and Modeling
1. What is simulation? Explain.
2. Explain with flow chart, the steps involved in simulation study.
3. Enlist the steps involved in development of a useful model of input data.
4. Briefly define any four concepts used in discrete event simulation.
5. Briefly explain the measure of performance of a simulation system.

Software Engineering
1. What are the characteristics of a software? Explain briefly.
2. Briefly explain the linear sequential model?
3. Differentiate between a software project and engineering project?
4. explain the characteristic feature of a software requirements document.
5. Describe different software requirement with examples?

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