सत्रीय कार्य / Assignment Work – 2013-14
MCA (2nd 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.)

Data communication and networking
1. Distinguish between asynchronous & synchronous transmission.
2. Explain various type of communication model?
3. Briefly explain the type of server.
4. Explain the need & use of network.
5. Briefly explain the OSI model.

Discrete Structure and Graph Theory
1. Define Power set with example?
2. Define graph and its basic properties?
3. List different types of graphs?
4. Define Set? How many subsets can be formed from a set having 5 elements?
5. Define graph and its basic properties? List different types of graphs?

Optimization Techniques
1. What is the importance of optimization technique?
2. Give engineering application of optimization.
3. Define Fibonacci numbers.
4. What is the difference between Fibonacci and golden section methods?
5. Write about Hungarian method for assignment problem.

Object Oriented Programming using C++
1. What is the difference between procedure-oriented programming and object-oriented programming?
2. What is the role of main() function in C++ ?
3. Explain prototype of main() function.
4. What are compilers? Write any five C++ compilers and explain them.
5. What is 'goto' statement? It is not recommended to use the 'goto' statement why?

Java Programming
1. What do you mean by OOP? Give a detailed description.
2. Explain Operators in Java.
3. What are all operators available in JAVA? Explain.
4. Tell any seven differences between Java and C++.
5. Explain various type of statements in brief.

Computer Graphics and Multimedia
1. What is multimedia? Explain meaning of multimedia?
2. Explain the different area of application of computer graphics.
3. Explain the basics concept in line drawing.
4. What is computer graphics? Explain with advantage of computer graphics.
5. What is animation? How many type of animations.

Structured System Analysis and Design
1. What do you know about system maintenance.
2. Who can be a system analyst? Explain with diagram.
3. Explain the advantages and disadvantages of interview.
4. What factors are attached at time of construction of system?
5. Throw light on the career prospects of a system analyst.

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