MATS UNIVERSITY

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

BCA (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.)

COMPUTER GRAPHICS – I

1. What is Computer Graphics.
2. What do you mean by Hard copy devices.
3. What do you mean by composite transformation ? How is it useful?
4. What is windowing and clipping?
5. Explain the 3D viewing process.

DISCRETE MATHEMATICS – II

1. Prove :
   (i)DeMorgan Laws (ii) Domination Laws (iii) Absorption Laws
   Using the membership table.
2. Define Permutations and Combination with example.
3. Explain Relation ? Define Properties of Relation as binary relation on a Set.
4. What is Graphs ? Explain Connected and Disconnected Graphs.
5. Define Groups and Sub Groups with example.

MANAGEMENT INFORMATION SYSTEM – III

1. Explain following with regard to system:
   (i) Characteristics (ii) Elements (iii) Types.
2. Write notes on following : (i) Components of MIS. (ii) Output of MIS
3. What is information Why information is needed?
4. What are the features visual display terminal?
5. Explain the procedure of hardware and software selection.

INTERNET TECHNOLOGY AND WEB APPLICATION - IV

1. What is switching technology ? Explain circuit switching.
2. What is dial-up connection? How do you make a dial-up connection? Write all steps.
3. Write Short notes on the following :-
   (a) MIRC (b) Channel (c) ICQ (d) AIM.
4. Write short note on the following :-
   (i) Language (b) P2 PTV (c) E-Commerce (d) B2B.
5. Write is the function of the following buttons in internet Explorer Toolbar :-
   (i) Search (ii) History (iii) Mail (iv) Print (v) Refresh.

JAVA PROGRAMMING – V

1. What is a Java applet? What is its function?
2. What are the rules for naming a java variables?
3. What is a class? How does it accomplish data hiding?
4. What is a vector? How is it different from an array?
5. What do you mean by checked and unchecked exceptions? Give examples.

SIMULATION & MODELING – VI

1. What is difference between static and dynamic models? Give an example of a dynamic mathematical model.
2. What is an exponential distribution? Explain with an example.
3. Discuss Kendall's notation for specifying the characteristics of a queue with an example.
4. What do you mean by Economic order Quantity(EQQ)?
5. What is discrete simulation? Explain Monte Carlo techniques with example.

SOFTWARE ENGINEERING – VII

1. What would you expect the relative costs of hardware and software development to be in each of the cases above?
2. Explain the difficulties in using natural language for describing requirements?
3. What is modularity and why is it important.
4. Why is requirements engineering so important and why is it so difficult?
5. Is programming/Software development easy? Justify your Answer.

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