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

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

सत्रीय कार्य/Assignment Work – 2020-21

B.C.A.(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.)

Advanced Computer Architecture - I

1. What do mean by the term "microprocessor speed"?
2. Describe briefly about the BCD code.
3. Using Boolean Algebra, prove the following-
   (a) $(A+B)\overline{A}.\overline{B}=0$ (b) $(A+B).(\overline{A}+C)=(A.C)+(\overline{A}.B)$ (c) $A.B.C+\overline{A}+\overline{B}+\overline{C}=1$ (d) $(\overline{A+B})+(\overline{A+\overline{B}})=\overline{A}$
4. Explain the following-
   (a) Instruction Code   (b) Instruction set   (c) Instruction format
5. Explain the various data transfer modes.

Multimedia Systems - II

1. What are Vector image? Write differences between vector and bitmap (Raster) image.
2. Write the advantages and disadvantages of on inkjet printer.
3. What is Deformation tool in paint Shop pro? Write all steps to Deform vector and raster layer.
4. Write short note on the following:
   (a)AVI   (b) MPEG   (c) DV (d) PAL
5. What is embedded font technology? What are advantages of embedded fonts?

Communication Skills - III

1. Explain process and models of communications.
2. Write a note on forms of communication motivation.
3. Explain choice and types of communication channels.
4. Write short notes on
     (a) Sorio – Psychological Barriers   (b) Organizational Barriers   (c) Personal Barriers
5. Write a note on committee. Explain advantages & disadvantages of committee.

Computer Networking - IV

1. What do you understand by the term `computer Network`?
2. Define the term LAN, WAN and MAN?
3. With a neat diagram explain repeaters?
4. Explain FTP in detail. What is the difference between FTP and TFTP?
5. Draw block diagram for explaining the concept of encryption and decryption?

System Analysis and Design & MIS - V

1. What do you mean by political considerations?
2. Write notes on the following-
     (a) Data collection (b) Questionnaire (c) Interview (d) Research (e) Background analysis
3. What do you mean by data analysis? Explain the fixed or variable cost and benefit?
4. What do you mean by file organization? Describe the different methods of file organization?
5. Differentiate between data and information.

Data Structure Through Language C - VI

1. What is time complexity? Explain with Example?
2. What do you mean by recursion? Example giving an example?
3. Explain circular linked list?
4. Giving an example. Differentiate pre-order and post- order traversals?
5. With the help of an example. Explain selection sort?

Database Management System - VII

1. What is time complexity? Explain with Example?
2. What do you mean by recursion? Example giving an example?
3. Explain circular linked list?
4. Giving an example. Differentiate pre-order and post- order traversals?
5. With the help of an example. explain selection sort?

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