सत्रीय कार्य / Assignment Work – 2021-22
B. Sc. CS Final Year

Max Marks – 30   **Min Marks - 10**

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 Organization and Architecture - I

1. What do you understand by microprocessor? Explain its characteristics.
2. Write a short note on universal gates with suitable logic diagram and truth tables.
3. What is Demorgan's theorem? Explain various laws of Boolean algebra.
4. What is a cache memory? Explain the terms cache-hit, cache-miss and cache ratio.
5. Explain the following: (a) Address space and Memory space; and (ii) I/O Interface.

Multimedia System – II

1. Explain use of multimedia in Education and Entertainment.
2. What is a Film Recorder? Write the advantages and disadvantages of Dot Matrix Printer.
3. What is Photoshop? Explain various features of Photoshop image editor.
4. What do you mean by graphics file format conversion? How do you convert a graphics file from PNG to JPEG/JPG?
5. Explain the 2d and 3d animation techniques in detail. Explain various principles of animation.

Internet technology and Web Application – III

1. Explain public and private FTP services. Elaborate the process to log onto anonymous site using line mode FTP client.
2. What is LAN? Write characteristics of LAN.
3. What is SGML? Why do you use it? Will it change the way you work.
4. What is Internet Explorer? Explain various features of Internet Explorer Toolbar.
5. What is frame? Define process of creating a page using two frames.

Computer Network - IV

1. What is peer-to-peer network? What are its advantages & disadvantages?
2. Explain CSMA protocol and its different types. What is multiple access technique?
3. Differentiate between OSI & TCP/IP model.
4. What are different phases of Security Lifecycle? What are the key principles of security?
5. What is the role of Firewall? Write attributes of Firewall.

DBMS Concepts - V

1. What you mean by 'IN' and 'OUT' parameters with reference to PROCEDURE? Explain giving example.
2. Explain the following giving example: (a) Functional dependency; and (b) Hash Table Index.
3. What is Database Recovery System? What are the reasons for system failure? Explain.
4. Explain the advantages of PL/SQL over SQL in detail.
5. What do you mean by Query processing? Explain.

Communication Skill – VI

1. Write a note on committee and define advisory committee and explain its functions.
2. Explain features and scope of communication. Explain process and models of communication.
3. Differentiate between formal and informal communication channels.
4. Describe principles of effective communication.
5. Write short notes on: (a) Inspiration; (b) Setting goals; (iii) Mechanical Media; and (iv) Imparting Information.