

Term End External Examination 1<sup>st</sup> Semester (Session-Feb 2025)

Subject: Computer Application (Batch 2022)

Course No and Title: CAP122M/ Computer Fundamentals

Time: 2.15 hours

Max Marks:100

Min. Marks:40

**Section A: Objective Type Questions**

- Q1. Choose the appropriate Answer: (8x1.5=12)**
- i. 8 bit 2's Complement of 11011110 is**  

A 0010 0001	B 0010 0010
C 01011110	D 11011110
  - ii. BIOS stands for**  

A Bios in and out System	B Board Input output Sub-System
C Basic Input Output System	D Basic Input Output Source System
  - iii. Which of the following is not a software**  

A Utility	B VLSI
C Open Source	D Firmware
  - iv. Which is not a language translator**  

A Convertor	B Assembler
C Compiler	D Interpreter
  - v. The first operational computer network in the world was the \_\_\_\_\_ for the United States Department of Defence**  

A SKYNET	B ERNET
C DARPANET	D ARPANET
  - vi. Which protocol uses port 443 for secure communication?**  

A HTTP	B FTP
C HTTPS	D Telnet
  - vii. Web Browser is a**  

A Language Translator	B System Software
C Utility Software	D Application Software
  - viii. Internet works on \_\_\_\_\_**  

A Packet switching	B Circuit switching
C Both packet switching and circuit switching	D Data switching

**Section-B: Descriptive Type Questions (Short Type)**

**Q2: Answer all the Questions (8 x 4 =32)**

- i.** What is Cache memory how it is different from primary and secondary memory
- ii.** Define number system and conversion between number systems with examples
- iii.** What is Operating System and what are its functions?
- iv.** Define real-time operating system, give example.
- v.** Define following practicals.  
 1) IP, 2) TCP, 3) UDP, 4) HTTP
- vi.** Distinguish between switch and router.
- vii.** What is a web server?
- viii.** Define netiquette.

**Section – C: Descriptive Type Questions (Medium Type)**

**Answer all the questions: (4 x 7=28)**

- Q3.** Explain the 1's and 2's complement methods of binary numbers. Give the 2's complement form of 10101101.  
**OR**  
 Explain the various generations of computers.
- Q4.** Explain the computer software and its various types.  
**OR**  
 Distinguish between multi-programing and multi-tasking.
- Q5.** Explain the transmission media with types. How guided media is different from unguided media?  
**OR**  
 Explain the different modes of communication with examples.
- Q6.** How data communication and computer network has

revolutionised the electronic market, banking and other sectors.

**OR**

Explain web server and its functions.

**Section – D: Descriptive Type Questions (Long Type)**

**Answer any two of the following: (2 x 14=28)**

- Q7.** How is Memory Hierarchy important for a computer system?  
Explain
- Q8.** What are the different categories of programming languages?  
Explain
- Q9.** Explain the various computer networks that connect devices over different geographical areas.
- Q10.** What are the requirements and steps to be followed by you in order to develop a website and make it operational on the web?  
Explain in detail.