

Term End External Examination 1st Semester (Session-Feb 2025)

Subject: Computer Applications

Course No and Title: CAP122N/ Elements of Computer Science

Time: 2.15 hours

Max Marks:100

Min. Marks:40

Section A: Objective Type Questions

- Q1. Choose the appropriate Answer: (8x1.5=12)**
- Which type of software manages hardware resources for execution of application Programs?**
A Application software B Packages
C Frameworks D Systems software
 - Which of the following is not a characteristic of a computer?**
A Versatility B I.Q.
C Diligence D Accuracy
 - Primary function of word processing software is to**
A Create and format text documents B Edit images
C Manage databases D Create spreadsheets
 - Which of the following is not a software development life cycle model**
A RAD Model B Agile Model
C Autonomous Model D Prototype Model
 - A database is a collection of**
A Utility Software B Spreadsheets
C Programming languages D Interrelated data
 - Which of the following is not an operating system?**
A Oracle B Psycholinguistics
C Linux D Sociolinguistics
 - Which of the following is NOT a component of the World Wide Web?**
A Web browsers B Spreadsheets
C Web Server D Web Pages
 - HTML stands for:**
A Hyper Text Markup Language B High Text Machine Language
C High Transfer Machine Language D Hyper Text Management Language

Section-B: Descriptive Type Questions (Short Type)

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

- Differentiate between input and output devices.
- State the key characteristics of different generations of computers.
- Define different types of computer languages.
- Illustrate the use of algorithms in program development with a suitable example.
- Explain the main functions of an operating system.
- Tabulate the key characteristics of a WAN and a MAN.
- Explain the role of artificial intelligence in image processing.
- Describe the significance of a URL in accessing web pages.

Section – C: Descriptive Type Questions (Medium Type)

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

- Q3.** Classify the types of softwares and describe their roles in functioning of a computer.
- OR**
- Explain the role of IDEs in program development.
- Q4.** Explain different phases of Software Development Life Cycle (SDLC).
- OR**
- Define word processing software. List any three key features of a word processing software.
- Q5.** Describe the key functions of an operating system as a resource manager.
- OR**
- Tabulate the differences between a database and a database management system.
- Q6.** Tabulate the differences between a domain name and an IP address.

OR

Define the term information security and explain its primary objectives.

Section – D: Descriptive Type Questions (Long Type)

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

- Q7.** Explain the hierarchy of memory in a computer system. Analyse its impact on overall performance of the system.
- Q8.** List different phases of Software Development Life Cycle (SDLC). Analyze how each phase contributes to the successful creation of a software.
- Q9.** Describe the significance of 5G communication. Explain its potential impact on modern communication technology.
- Q10.** Describe the role of artificial intelligence in natural language processing.