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GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN
(AUTONOMOUS)

(Affiliated to Andhra University, Visakhapatnam)

I B.Tech. - I Semester Regular Examinations, December / January – 2025

Fundamentals of Computers
(Common to CSE, IT, CSE-AI&ML)

1. All questions carry equal marks
2. Must answer all parts of the question at one place

Time: 3Hrs.

Max Marks: 70

UNIT-I

1. a. Explain the stored program concept and its significance in modern computers. [7M]
b. Compare hard copy and soft copy output devices and illustrate their uses with examples. [7M]

OR

2. a. Summarize the features that make computers powerful tools across different applications. [7M]
b. Outline the basic organization of a computer and the role of each component. [7M]

UNIT-II

3. a. Explain the concept of memory hierarchy and its importance in computer systems. [7M]
b. Classify memory in terms of primary and secondary storage and outline the differences. [7M]

OR

4. a. What is cache memory and explain its role in enhancing processor performance. [7M]
b. Summarize the different types of processor registers and their purposes. [7M]

UNIT-III

5. a. Define software and explain its classification in detail. [7M]
b. Summarize the stages of the program development life cycle and illustrate each stage with examples. [7M]

OR

6. a. Contrast programming languages based on their generation and application. [7M]
b. Explain the importance of program design tools in software development. [7M]

UNIT-IV

7. a. Explain the core functions of an operating system in managing hardware and software resources. [7M]
b. Define the file-oriented and database-oriented data storage approaches and compare their features. [7M]

OR

8. a. Explain the three-schema architecture and illustrate its significance in database design. [7M]
b. Identify the main components of a network and explain the roles of networking devices. [7M]

UNIT-V

9. a. Define artificial intelligence and explain its importance in current technologies. [7M]
b. Summarize the CRISP-DM method and outline its stages in data science projects. [7M]

OR

10. a. Outline the concept of data modeling and illustrate its importance in data science. [7M]
b. Illustrate the differences between AI, machine learning, and data science with examples. [7M]