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, CSE-AIML and IT)
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. Discuss about various Components of a computer with a neat diagram.   [7M]
  b. Differentiate between various Biometric Devices along with merits and demerits.   [7M]

OR

2 a. Explain the evolution and development of Computers.   [7M]
  b. Summarize the merits and demerits of Voice Response Systems.   [7M]

UNIT-II

3. a. Differentiate between Primary Memory and Secondary Memory.   [7M]
  b. Explain the different types of memory organization with examples   [7M]

OR

4 a. Define Processor Registers. Explain Cache Memory in detail.   [7M]
  b. Outline the difference between sequential and Random Access memory.   [7M]

UNIT-III

5 a. Distinguish between different types of computer software.   [7M]
  b. What are the different phases of program development life Cycle?   [7M]

OR

6 a. What are the different generations of Programming Languages.   [7M]
  b. Define software. Explain briefly and different Database Management Software.   [7M]

UNIT-IV

7 a. Classify different Network topologies and also mention the applications of each.   [7M]
  b. Illustrate Three Schema Architecture in Database Systems.   [7M]

OR

8 a. Define Operating System. What are the different types of Operating System?   [7M]
  b. What are the physical components of a computer networks. Give Examples.   [7M]

UNIT-V

9 a. Differentiate between Artificial Intelligence, Machine Learning and Deep learning   [7M]
  b. Write about various applications of Artificial Intelligence in Agriculture.   [7M]

OR

10 a. What is the significance of Data Model in Data Science?   [7M]
  b. Discuss any Data Science application with use case diagram.   [7M]