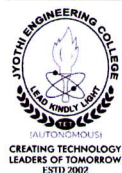


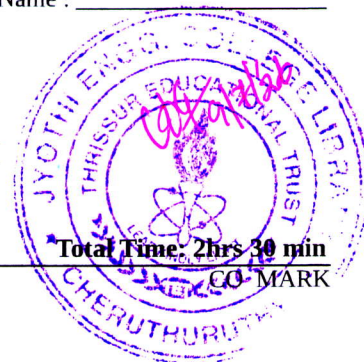
Reg No.: _____

Name : _____



Jyothi Engineering College(Autonomous)
B. Tech Degree S2 (S) Examination, June 2026 (2025 Scheme)

**25EST201 - FOUNDATIONS OF COMPUTING: FROM
 HARDWARE ESSENTIALS TO WEB
 DESIGN**

Total Mark: 60**PART A****(Answer All Questions. Each question carries 3 marks)**

- | | |
|---|---------|
| 1. Classify the types of devices managed by the operating system. | CO1 (3) |
| 2. List and describe three common input peripherals and their primary functions in a computer system. | CO1 (3) |
| 3. Convert the binary fraction 0.1111 into its decimal equivalent. | CO2 (3) |
| 4. Differentiate between machine language and assembly language. | CO2 (3) |
| 5. What are the technologies used to implement a MAN? | CO3 (3) |
| 6. What are the different types of queries used in DNS? | CO3 (3) |
| 7. Explain the properties of CSS Borders. | CO4 (3) |
| 8. Explain the context of web vs internet. | CO4 (3) |

PART B**(Answer any one full question from each module, each question carries 9 marks)****Module - 1**

- | | |
|--|---------|
| 9. a) Explain the major functions of firmware in a computer system. | CO1 (5) |
| b) List and explain the different types of DVDs used in optical storage. | CO1 (4) |

OR

- | | |
|--|---------|
| 10. a) What are the advantages of using SSDs over HDDs for data storage? | CO1 (5) |
| b) List any four types of firmware. | CO1 (4) |

Module - 2

- | | |
|---|---------|
| 11. Explain the use of mnemonics and operands in Assembly Language with examples. | CO2 (9) |
|---|---------|

OR

- | | |
|---|---------|
| 12. a) Explain different types of addressing modes used in assembly language. Describe any three addressing modes with suitable examples. | CO2 (5) |
| b) Write in detail about data transfer instructions and arithmetic instructions. | CO2 (4) |

Module - 3

- | | |
|--|---------|
| 13. a) List and explain any four types of Operating Systems. | CO3 (5) |
| b) Explain the basics of IP Address. | CO3 (4) |

OR

- | | |
|--|---------|
| 14. a) Explain the various types of VPN protocols. | CO3 (5) |
|--|---------|

b) Write a comparative study of how WAN and PAN differ.

CO3 (4)

Module - 4

15. Explain the concept of embedding of JavaScript in HTML.

CO4 (9)

OR

16. a) Design a webpage that includes an image, a title, and a description styled with CSS.

CO4 (5)

b) Explain <a> tag with its different attributes.

CO4 (4)
