**QP CODE: D1BCS2404**

**Name: .....**
**Reg.No.: .....**

# FIRST SEMESTER FYUGP EXAMINATION NOVEMBER 2024

## MINOR

## CSC1MN101 EXPLORING COMPUTER BASICS & COMPUTATIONAL THINKING

**Time : 2 Hrs** **Maximum Marks : 70**

BL : Bloom's Taxonomy Level (1 to 6) CO : Course Outcome

### Section A

Ceiling Marks : 24

Answer all questions. Each carries 3 marks.

| No. | Question | M | BL | CO |
|---|---|---|---|---|
| 1. | Describe the main technology used in the fourth generation of computers and name one computer from that generation | 3 | 1 | CO1 |
| 2. | Explain the key features of computers. | 3 | 2 | CO1 |
| 3. | Convert the decimal number 9 to its corresponding Excess-3 code representation. Show your working steps. | 3 | 3 | CO3 |
| 4. | Define the terms: bit, byte, and nibble in terms of storage capacity. | 3 | 2 | CO1 CO3 |
| 5. | Explain the different types of ROM. | 3 | 2 | CO1 CO2 CO3 |
| 6. | Describe the functions of any three input devices. | 3 | 2 | CO1 CO2 |
| 7. | What are speakers? Explain their functions. | 3 | 2 | CO1 CO2 |
| 8. | List the main differences between system software and application software | 3 | 2 | CO1 CO4 |
| 9. | What is a flowchart, and how is it used to represent algorithms? | 3 | 2 | CO5 |
| 10. | How does a flowchart improve the clarity and structure of an algorithm? | 3 | 2 | CO5 |

### Section B

Ceiling Marks : 36

Answer all questions. Each question carries 6 marks.

| No. | Question | M | BL | CO |
|---|---|---|---|---|
| 11. | Differentiate between Minicomputers and Mainframe computers, highlighting their primary uses. | 6 | 2 | CO1 CO2 CO3 |
| 12. | Define the term \'hardware\' in the context of computers and provide examples of key hardware components. | 6 | 3 | CO1 CO2 |
| 13. | Differentiate between Ethernet port and HDMI port. | 6 | 3 | CO2 |
| 14. | What is Primary Memory, and how does it differ from Secondary Memory? Provide examples of each. | 6 | 2 | CO1 CO2 |
| 15. | What are the primary functions of a touchpad and a digital camera as input devices? | 6 | 2 | CO2 |
| 16. | Explain in detail the steps to solve programming problems. | 6 | 2 | CO5 CO6 |
| 17. | Write an algorithm to find whether a number is positive negative or zero. | 6 | 3 | CO5 |
| 18. | Draw the flowchart of finding the sum of two numbers | 6 | 3 | CO5 |

### Section C

Answer any 1 question. Each carries 10 marks. (1x10=10 marks)

| No. | Question | M | BL | CO |
|---|---|---|---|---|
| 19. | Explain Digital codes in detail. | 10 | 2 | CO3 |
| 20. | What is meant by operating system? Describe the functions of an operating system in a computer in detail. | 10 | 2 | CO4 |

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