

FIRST QUARTERLY TEST AUGUST 2025

CLASS : I PUC

SUBJECT : COMPUTER SCIENCE (41)

Max. Marks : 35

TIME : 1 Hr. 30 mins.

PART-A

I Answer the following questions. Each question carries ONE mark: 10x1=10

- 1) A byte is a group of _____ bits.
a) 4 bits b) 8 bits ✓ c) 16 bits d) 32 bits
- 2) Which device is designed by Charles Babbage?
a) Pascaline b) EDVAC c) Abacus d) Analytical Engine ✓
- 3) _____ is a volatile memory.
a) ROM b) RAM ✓ c) SSD d) HDD
- 4) Which of the following is the fifth generation microprocessor?
a) 4004 b) Motorola 68030 ✗ c) Intel pentium d) Intel 8086 ✓
- 5) The number of digits present in the number system is called
a) Base ✓ b) Weight c) Position d) Value
- 6) ASCII stands for
a) American Standard Code for Information Interchange ✓
b) American Simple Code for Information Interchange
c) American Standard Code for Instruction Interchange
d) American Sample Code for Information Interchange
- 7) The binary equivalent of hexadecimal digit 'A' is
a) 1010 b) 1011 ✓ c) 1111 d) 1100

II Fill in the blanks by choosing appropriate word from those given in brackets: (encoding, 16 bits, 8 bits, unicode, EBCDIC)

- 8) _____ number of bits are used in ISCII.
- 9) _____ is the mechanism of converting data into a specific coded format.
- 10) _____ is a superset of ASCII code.

PART-B

III Answer any THREE questions. Each question carries TWO marks : 3x2=6

- 11) Give two differences between RAM and ROM. ✓
- 12) What is Free and Open Source Software (FOSS)? Give example. ✓
- 13) Name the different language translators.
- 14) Convert $45_{(10)}$ to binary. ✓
- 15) What is positional number system ? Give an example.

PART-C

IV Answer any THREE questions. Each question carries THREE marks: 3x3=9

- 16) Write a note on Secondary memory.
- 17) Explain the different types of data. ✓
- 18) What is microcontroller ? Mention any two devices that use microcontroller. ✓
- 19) $FACE_{(16)} = ?()_8 = ?()_2$ ✓
- 20) Explain UNICODE encoding scheme.

PART-D

V Answer any TWO questions. Each question carries FIVE marks : 2x5=10

- 21) Explain the functional units of computer with a neat block diagram. ✓
- 22) Explain the various program development tools. ✓
- 23) Explain different user Interfaces.
- 24) What is an operating system? Explain any four functions of operating system.
