

Seat No. : 00707

FG-110

February-2025

BS BCA/B.C.A., Sem.-1

IDC/MDC-BCA-114T : Emerging Computer Technologies

Time : 1:00 Hour]

[Max. Marks : 25

1. Write the following :

(i) Write a note on Technology Users.

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(ii) What is Output ? Explain Display in detail.

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OR

(i) Write a note on Keyboard in detail.

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(ii) What is Memory ? Explain types of Memory in detail.

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2. Write the following :

(i) Convert the following :

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(a) $(11111)_2 = ()_{10}$

(b) $(56892)_{10} = ()_8$

(ii) Explain Excess-3 & BCD Code with example.

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OR

(i) Convert the following :

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(a) $(3654)_{10} = ()_2$

(b) $(ABCD)_{16} = ()_{10}$

(ii) Perform the following :

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(a) $10101 + 00110 = ?$

(b) $1110 - 0101 = ?$

3. Answer the following : (Any five)

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(1) LED stands for

(a) Light Emitting Device

(b) Light Emitting Diode

(c) Light Emitting Display

(d) Light Emitting Dashboard

(2) RFID stands for

- (a) Radio Frequency Instruction
- (b) Radio Frequency Information
- (c) Radio Frequency Identification
- (d) Radio Frequency Investigation

(3) _____ is a computer dedicated to providing one or more services to other computers or devices on a network.

- | | |
|------------|-----------------------|
| (a) Server | (b) Personal Computer |
| (c) Client | (d) Network |

(4) BCD stands for _____.

- | | |
|--------------------------|--------------------------|
| (a) Binary Coded Digital | (b) Binary Coded Decimal |
| (c) Binary Coded Diode | (d) Binary Coded Device |

(5) Convert this $(325)_8$ into Hexadecimal number.

- | | |
|------------------|------------------|
| (a) $(0C5)_{16}$ | (b) $(0E5)_{16}$ |
| (c) $(0D5)_{16}$ | (d) $(0B5)_{16}$ |

(6) Convert this $(1101100110)_2$ into Octal number.

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|----------|----------|
| (a) 1546 | (b) 1548 |
| (c) 1544 | (d) 1542 |
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