

Seat No. : \_\_\_\_\_

# 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. 5

(ii) What is Output ? Explain Display in detail. 5

**OR**

(i) Write a note on Keyboard in detail. 5

(ii) What is Memory ? Explain types of Memory in detail. 5

2. Write the following :

(i) Convert the following : 5

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

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

(ii) Explain Excess-3 & BCD Code with example. 5

**OR**

(i) Convert the following : 5

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

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

(ii) Perform the following : 5

(a)  $10101 + 00110 = ?$

(b)  $1110 - 0101 = ?$

3. Answer the following : (Any **five**) 5

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