

Brainware University  
Barasat, Kolkata - 700125



# BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – Dip.EE-2019/Dip.EE-2021

Course Name – Applied and Digital Electronics

Course Code - DEE404

( Semester IV )

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Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Any signed negative binary number is identified by its \_\_\_\_\_
  - a) MSB
  - b) LSB
  - c) Byte
  - d) Nibble
- (ii) The parameter through which 16 distinct values can be represented is known as \_\_\_\_\_
  - a) Bit
  - b) Byte
  - c) Word
  - d) Nibble
- (iii) According to the property of minterm, calculate how many combination will have value equal to 1 for K input variables?
  - a) 0
  - b) 1
  - c) 2
  - d) 3
- (iv) A variable on its own or in its complemented form is written as a \_\_\_\_\_
  - a) Product Term
  - b) Literal
  - c) Sum Term
  - d) Word
- (v) On multiplication of (10.10) and (01.01), we produced \_\_\_\_\_
  - a) 101.001
  - b) 10.101
  - c) 11.001
  - d) 110.0011
- (vi) Maxterm is the sum of \_\_\_\_\_ of the corresponding Minterm with its literal complemented.
  - a) Terms
  - b) Words
  - c) Numbers
  - d) Nibble
- (vii) 1's complement of 1011101 is \_\_\_\_\_
  - a) 101110
  - b) 1001101
  - c) 100010
  - d) 1100101
- (viii) There are \_\_\_\_\_ Minterms for 3 variables (a, b, c).
  - a) 0
  - b) 2
  - c) 8
  - d) 1

