සියලු ම හිමිකම් ඇවිරිණි / முழுப் பதிப்புரிமையுடையது / All Rights Reserved]

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අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2025
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீடசை, 2025
General Certificate of Education (Adv. Level) Examination, 2025

තොරතුරු හා සන්නිවේදන තාක්ෂණය	I
தகவல், தொடர்பாடல் தொழினுட்பவியல்	I
Information & Communication Technology	I

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இரண்டு மணித்தியாலம்
Two hours

Instructions:

- *Answer **all** the questions.*
- *Write your* Full Name *in the space provided in the answer sheet.*
- *Instructions are also given on the back of the answer sheet. Follow those carefully.*
- *In each of the questions* 1 to 30, *pick one of the alternatives from* (1), (2), (3), (4), (5) *which is **correct or most appropriate** and **mark your response on the answer sheet with a cross** (x) **in accordance with the instructions given on the back of the answer sheet.***
- *Use of calculators is **not allowed.***

1. The MSD (Most Significant Digit) of 0921.38 is?

   1) 0
   2) 9
   3) 1
   4) 3
   5) 8

2. -64 represented by sign and magnitude method is?

   1) 01000001
   2) 11000000
   3) 10111110
   4) 00111110
   5) 11010001

3. What is the ones complement of decimal -23?

   1) 10001110
   2) 11101000
   3) 00011001
   4) 11100110
   5) 00010111

4. Select the binary representation of the decimal 89?

   1) 001011011
   2) 01010111
   3) 01100001
   4) 01011001
   5) 01001111

See Page 2

5. $7C_{16} + 101101_2$ is equal to?

1) $A9_{16}$
2) 10000111_2
3) 10000110_2
4) 133_{10}
5) 133_8

6. Select the answer which represents 8 in BCD (Binary Coded Decimal)?

1) 00001000
2) 0001000
3) 1000
4) 01000
5) 000100

7. Which coding system is not standardized but uses a linear ordering of letters?

1) BCD
2) EBCDIC
3) ASCII
4) UNICODE
5) Ones complement

8. Which of the following is a disadvantage of ASCII coding system?

1) Not standardized
2) Twice the memory capacity is required to save
3) Does not use a linear ordering of letters
4) Require a complex design of ALU than the binary number system
5) Compatible with modern encoding techniques

9. What is the answer for $4A6_{16} + 2B_{16}$?

1) 118_{16} 2) 670_{16} 3) $4D1_{16}$ 4) 659_{16} 5) $72A_{16}$

10. Find the least significant Digit of 057.26

1) 0 2) 5 3) 7 4) 2 5) 6

11. Which of the following decimal is equivalent to Twos complement value 1100110?

1) -85 2) -58 3)-56 4) -78 5)-68

12. How many characters does EBCDIC represent?

1) 128 2) 256 3) 8 4) 16 5) 65536

See Page 3

13. Addition of $162_8 + 537_8$

1) 774_8 2) 721_8 3) 750_8 4) 735_8 5) 739_8

14. What is the binary of the hexadecimal $B509EF_{16}$?

1) 101101010000100111101111
2) 101101010000100111101000
3) 101101010000100111101110
4) 1011010100001001111010111
5) 1100010100001001111011111

15. Which coding system is used in digital voltmeters, frequency converters and digital clocks which display output in decimal?

2) BCD
3) ASCII
5) Twos complement
2) EBCDIC
4) UNICODE

16. $11.101_2 * 10_2$ is?

1) 11.101_2
2) 110.01_2
3) 1110.1_2
4) 11101_2
5) 10.101_2

17. 1001001+0011001 is ?

1) 1001001
2) 1100010
3) 1110010
4)1100111
5) 1010010

18. $BA3_{16} + 5DE_{16}$ is?

1) 1191_{16}
2) 1182_{16}
3) $A192_{16}$
4) 1181_{16}
5) 1180_{16}

19. 352_8+111_8 is?

1) 462_8 2) 463_8 3) 241_8 4) 469_8 5) 532_8

See Page 4

20. What is the equivalent for 32_{10}?

A) 100000_2 B) 40_8 C) 21_{16}

1) A only 2) B only 3) C only 4) A and B only 5) A and C only

See Page 5