

ECAT Computer Science Chapter 4 Computer Arithmetic & Number System Online Test

Sr	Questions	Answers Choice
1	The number 10000 would appear just immediately after.	A. FFFF (hex) B. 1111 (binary) C. 7777 (octal) D. all of the above
2	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
3	What is the octal equivalent of the binary system :10111101.?	A. 675 ₈ B. 275 ₈ C. 572 ₈ D. 573 ₈
4	Base 8 is often used in computing because.	A. there are 8 bit in a byte B. calculations become easier by using base 8 C. electronic circuits can be made economically D. it can represent long strings of binary 1's and 0's in a more compact form
5	The number ABC in Hexadecimal system is equivalent to which number in decimal system.	A. $A \times 100 + B \times 10 + C \times 1$ B. $10 \times 100 + 11 \times 10 + 12$ C. $10 \times 16 + 11 \times 16 + 12$ D. $10 \times 256 + 11 \times 16 + 12$
6	Number 375 ₁₀ is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111 D. 101110011
7	AB ₁₆ + CD ₁₆ = _____	A. 101111010 ₂ B. 101111000 ₂ C. 101111110 ₂ D. 101101000 ₂
8	Data is represented on a computer by means of a two-state on/off system called	A. the octal system B. the binary system C. a word D. ROM
9	Alphanumeric characters are expressed in terms of binary codes. In ASCII (American standard Code for Information Interchange) each character is represented as a	A. 8 bit code B. 4 bit code C. 5 bit code D. 7 bit code
10	The number A9D in Hexadecimal system is equivalent to which number in binary system.	A. 101010111101 B. 101010011101 C. 101110011101 D. 101010011111
11	The binary number 10011101 is equal to the hexadecimal number.	A. 9E B. 9F C. 9D D. FF
12	Data items are generally classified into which type of codes	A. Numeric B. Alphanumeric C. Character D. All of the above
13	The hexadecimal number system is widely used in analyzing and programming in.	A. analog computers B. binary computers C. decimal computers D. micro computers
14	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13

15	The main advantage of hexadecimal number is the ease of conversion from hexadecimal to.	A. ASCII code B. binary C. octal D. decimal
16	The number A9D in Hexadecimal system is equivalent to which number in decimal system.	A. 2727 B. 2648 C. 3717 D. 2717
17	The digits used for hexadecimal number system are.	A. A through Z B. 1 through 16 C. 0 through 15 D. 0 through 9 and A through F
18	$126_8 + 425_8 =$ _____	A. 111101011 ₂ B. 101101001 ₂ C. 101101011 ₂ D. 101100011 ₂
19	Binary number 10101101 is equivalent in decimal form to.	A. 170 B. 171 C. 173 D. 174
20	Octal number system uses the digit 0 to 7. The equivalent of Octal 126 in decimal system is.	A. 80 B. 82 C. 86 D. 84
21	The reason why computers have been designed to use binary numbers is.	A. computer circuits have to handle 2 binary digits rather than 10 B. electronic components, by their very nature, operate in a binary mode C. everything that can be done with a base of 10 can also be done in binary D. all of the above
22	97_{10} (decimal) in octal number system is equivalent to.	A. 136_8 B. 140_8 C. 139_8 D. 141_8
23	A letter, number, or a special character is represented by a.	A. bit B. kilobyte C. byte D. megabyte
24	125_8 (octal) in decimal equivalent is equal to.	A. 83_{10} B. 84_{10} C. 85_{10} D. 86_{10}