ECAT Computer Science Chapter 4 Computer Arithmetic & Number System

Sr	Questions	Answers Choice
1	The hexadecimal number system is widely used in analyzing and programming in.	A. analog computers B. binary computers C. decimal computers D. micro computers
2	The number 10000 would appear just immediately after.	A. FFFF (hex) B. 1111 (binary) C. 7777 (octal) D. all of the above
3	The main advantage of hexadecimal number is the case of conversion from hexadecimal to.	A. ASCII code B. binary C. octal D. decimal
4	What is the octal equivalent of the binary system :10111101.?	A. 675₈ B. 275₈ C. 572₈ D. 573₈
5	The number ABC in Hexadecimal system is equivalent to which number in decimal system.	A. A x 100 + B x 10 + C x 1 B. 10 x 100 + 11 x 10 + 12 C. 10 x 16 + 11 x 16 + 12 D. 10 x 256 + 11 x 16 + 12
6	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
7	Number $375_{10}$is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111 D. 101110011
8	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
9	97_{10}(decimal) in octal number system is equivalent to.	A. 136₈ B. 140₈ C. 139₈ D. 141₈
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 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
12	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13
13	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
14	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
		A. there are 8 bit in a byte

15	Base 8 is often used in computing because.	B. calculations become easier by using base 8 C. electronic circuits can be made econmically D. it can represent long strings of binary 1's an 0's in a more compact form
16	Data items are generally classified into which type of codes	A. Numeric B. Alphanumeric C. Character D. All of the above
17	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
18	A letter, number, or a special character is represented by a.	A. bit B. kilobyte C. byte D. megabyte
19	AB_{16}+ CD_{16}= _____	A. 101111010₂ B. 101111000₂ C. 101111110₂ D. 101101000₂
20	126_8+ 425_8= _____	A. 111101011₂ B. 101101001₂ C. 101101011₂ D. 101100011₂