ECAT Computer Science Chapter 4 Computer Arithmetic & Number System

Sr	Questions	Answers Choice
1	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
2	Binary number 10101101 is equivalent in decimal form to.	A. 170 B. 171 C. 173 D. 174
3	The number A9D in Hexadecimal system is equivalent to which number in decimal system.	A. 2727 B. 2648 C. 3717 D. 2717
4	125_8(octal) in decimal equivalent is equal to.	A. 83₁₀ B. 84₁₀ C. 85₁₀ D. 86₁₀
5	126_8+ 425_8= _____	A. 111101011₂ B. 101101001₂ C. 101101011₂ D. 101100011₂
6	The number 10000 would appear just immediately after.	A. FFFF (hex) B. 1111 (binary) C. 7777 (octal) D. all of the above
7	A letter, number, or a special character is represented by a.	A. bit B. kilobyte C. byte D. megabyte
8	Number $375_{10}$is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111 D. 101110011
9	The hexadecimal number system is widely used in analyzing and programming in.	A. analog computers B. binary computers C. decimal computers D. micro computers
10	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
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	AB_{16}+ CD_{16}= _____	A. 101111010₂ B. 101111000₂ C. 101111110₂ D. 101101000₂
13	97_{10}(decimal) in octal number system is equivalent to.	A. 136₈ B. 140₈ C. 139₈ D. 141₈
14	The number A9D in Hexadecimal system is equivalent to which number in binary system.	A. 101010111101 B. 101010011101 C. 101110011101 D. 101010011111
		A. A through Z

15	The digits used for hexadecimal number system are.	B. 1 through 16 C. 0 through 15 D. 0 through 9 and A through F
16	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 econmically D. it can represent long strings of binary 1's an 0's in a more compact form
17	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
18	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13
19	What is the octal equivalent of the binary system :10111101.?	A. 675₈ B. 275₈ C. 572₈ D. 573₈
20	The main advantage of hexadecimal number is the case of conversion from hexadecimal to.	A. ASCII code B. binary C. octal D. decimal