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

Sr	Questions	Answers Choice
1	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
2	Data items are generally classified into which type of codes	A. Numeric B. Alphanumeric C. Character D. All of the above
3	A letter, number, or a special character is represented by a.	A. bit B. kilobyte C. byte D. megabyte
4	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
5	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
6	The hexadecimal number system is widely used in analyzing and programming in.	A. analog computers B. binary computers C. decimal computers D. micro computers
7	The main advantage of hexadecimal number is the case of conversion from hexadecimal to.	A. ASCII code B. binary C. octal D. decimal
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	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
10	125_8(octal) in decimal equivalent is equal to.	A. 83₁₀ B. 84₁₀ C. 85₁₀ D. 86₁₀
11	97_{10}(decimal) in octal number system is equivalent to.	A. 136₈ B. 140₈ C. 139₈ D. 141₈
12	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13
13	Binary number 10101101 is equivalent in decimal form to.	A. 170 B. 171 C. 173 D. 174
14	Number $375_{10}$is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111

		D. 101110011
15	What is the octal equivalent of the binary system :10111101.?	A. 675₈ B. 275₈ C. 572₈ D. 573₈
16	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
17	The binary number 10011101 is equal to the hexadecimal number.	A. 9E B. 9F C. 9D D. FF
18	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
19	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
20	The number A9D in Hexadecimal system is equivalent to which number in decimal system.	A. 2727 B. 2648 C. 3717 D. 2717
21	AB_{16}+ CD_{16}= _____	A. 101111010₂ B. 101111000₂ C. 101111110₂ D. 101101000₂
22	126_8+ 425_8= _____	A. 111101011₂ B. 101101001₂ C. 101101011₂ D. 101100011₂
23	The number A9D in Hexadecimal system is equivalent to which number in binary system.	A. 101010111101 B. 101010011101 C. 101110011101 D. 101010011111
24	The number 10000 would appear just immediately after.	A. FFFF (hex) B. 1111 (binary) C. 7777 (octal) D. all of the above