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	The binary number 10011101 is equal to the hexadecimal number.	A. 9E B. 9F C. 9D D. FF
3	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13
4	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
5	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
6	The main advantage of hexadecimal number is the case of conversion from hexadecimal to.	A. ASCII code B. binary C. octal D. decimal
7	126_8+ 425_8= _____	A. 111101011₂ B. 101101001₂ C. 101101011₂ D. 101100011₂
8	125_8(octal) in decimal equivalent is equal to.	A. 83₁₀ B. 84₁₀ C. 85₁₀ D. 86₁₀
9	The number A9D in Hexadecimal system is equivalent to which number in binary system.	A. 101010111101 B. 101010011101 C. 101110011101 D. 101010011111
10	Binary number 10101101 is equivalent in decimal form to.	A. 170 B. 171 C. 173 D. 174
11	Data items are generally classified into which type of codes	A. Numeric B. Alphanumeric C. Character D. All of the above
12	The hexadecimal number system is widely used in analyzing and programming in.	A. analog computers B. binary computers C. decimal computers D. micro computers
13	97_{10}(decimal) in octal number system is equivalent to.	A. 136₈ B. 140₈ C. 139₈ D. 141₈
14	AB_{16}+ CD_{16}= _____	A. 101111010₂ B. 101111000₂ C. 101111110₂ D. 101101000₂
15	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
16	What is the octal equivalent of the binary system :10111101.?	A. 675₈ B. 275₈ C. 572₈ D. 573₈
17	The number A9D in Hexadecimal system is equivalent to which number in decimal system.	A. 2727 B. 2648 C. 3717 D. 2717
18	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
19	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
20	Number $375_{10}$is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111 D. 101110011