ECAT Computer Science Chapter 4 Computer Arithmetic & Number System

Sr	Questions	Answers Choice
1	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13
2	What is the octal equivalent of the binary system :10111101.?	A. 675₈ B. 275₈ C. 572₈ D. 573₈
3	Number $375_{10}$is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111 D. 101110011
4	A letter, number, or a special character is represented by a.	A. bit B. kilobyte C. byte D. megabyte
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	97_{10}(decimal) in octal number system is equivalent to.	A. 136₈ B. 140₈ C. 139₈ D. 141₈
7	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
8	The number A9D in Hexadecimal system is equivalent to which number in decimal system.	A. 2727 B. 2648 C. 3717 D. 2717
9	The number 10000 would appear just immediately after.	A. FFFF (hex) B. 1111 (binary) C. 7777 (octal) D. all of the above
10	The main advantage of hexadecimal number is the case of conversion from hexadecimal to.	A. ASCII code B. binary C. octal D. decimal
11	The number A9D in Hexadecimal system is equivalent to which number in binary system.	A. 101010111101 B. 101010011101 C. 101110011101 D. 101010011111
12	126_8+ 425_8= _____	A. 111101011₂ B. 101101001₂ C. 101101011₂ D. 101100011₂
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	Data items are generally classified into which type of codes	A. Numeric B. Alphanumeric C. Character D. All of the above
15	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

16	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
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	AB_{16}+ CD_{16}= _____	A. 101111010₂ B. 101111000₂ C. 101111110₂ D. 101101000₂
19	The binary number 10011101 is equal to the hexadecimal number.	A. 9E B. 9F C. 9D D. FF
20	Binary number 10101101 is equivalent in decimal form to.	A. 170 B. 171 C. 173 D. 174