ECAT Computer Science Chapter 4 Computer Arithmetic & Number System

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	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
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	Data items are generally classified into which type of codes	A. Numeric B. Alphanumeric C. Character D. All of the above
5	The number 10000 would appear just immediately after.	A. FFFF (hex) B. 1111 (binary) C. 7777 (octal) D. all of the above
6	What is the octal equivalent of the binary system :10111101.?	A. 675₈ B. 275₈ C. 572₈ D. 573₈
7	$126_8 + 425_8 =$ _____	A. 111101011₂ B. 101101001₂ C. 101101011₂ D. 101100011₂
8	$AB_{16} + CD_{16} =$ _____	A. 101111010₂ B. 101111000₂ C. 101111110₂ D. 101101000₂
9	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
10	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13
11	97_{10}(decimal) in octal number system is equivalent to.	A. 136₈ B. 140₈ C. 139₈ D. 141₈
12	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
13	The binary number 10011101 is equal to the hexadecimal number.	A. 9E B. 9F C. 9D D. FF
14	A letter, number, or a special character is represented by a.	A. bit B. kilobyte C. byte D. megabyte
		A. 83₁₀

15	125_8(octal) in decimal equivalent is equal to.	B. 84₁₀ C. 85₁₀ D. 86₁₀
16	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
17	The hexadecimal number system is widely used in analyzing and programming in.	A. analog computers B. binary computers C. decimal computers D. micro computers
18	The number A9D in Hexadecimal system is equivalent to which number in binary system.	A. 101010111101 B. 101010011101 C. 101110011101 D. 101010011111
19	Number $375_{10}$is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111 D. 101110011
20	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