

ECAT Computer Science Online Test

Sr	Questions	Answers Choice
1	The number 10000 would appear just immediately after.	A. FFFF (hex) B. 1111 (binary) C. 7777 (octal) D. all of the above
2	The number A9D in Hexadecimal system is equivalent to which number in binary system.	A. 101010111101 B. 101010011101 C. 101110011101 D. 101010011111
3	$126_8 + 425_8 =$ _____	A. $111101011_{(2)}$ B. $101101001_{(2)}$ C. $101101011_{(2)}$ D. $101100011_{(2)}$
4	$AB_{16} + CD_{16} =$ _____	A. $101111010_{(2)}$ B. $101111000_{(2)}$ C. $101111110_{(2)}$ D. $101101000_{(2)}$
5	The number A9D in Hexadecimal system is equivalent to which number in decimal system.	A. 2727 B. 2648 C. 3717 D. 2717
6	The number ABC in Hexadecimal system is equivalent to which number in decimal system.	A. $A \times 100 + B \times 10 + C \times 1$ B. $10 \times 100 + 11 \times 10 + 12$ C. $10 \times 16 + 11 \times 16 + 12$ D. $10 \times 256 + 11 \times 16 + 12$
7	The binary number 101000101011 is equal to the hexadecimal number	A. A2D B. C2D C. A2B D. B2C
8	The binary number 10011101 is equal to the hexadecimal number.	A. 9E B. 9F C. 9D D. FF
9	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
10	What is the octal equivalent of the binary system :10111101.?	A. $675_{(8)}$ B. $275_{(8)}$ C. $572_{(8)}$ D. $573_{(8)}$
11	Number 375_{10} is equivalent in binary system to.	A. 101110101 B. 100110101 C. 101110111 D. 101110011
12	Binary number 10101101 is equivalent in decimal form to.	A. 170 B. 171 C. 173 D. 174
13	Four-digit binary number 1011 is represented in the decimal system by.	A. 7 B. 9 C. 11 D. 13
14	97_{10} (decimal) in octal number system is equivalent to.	A. $136_{(8)}$ B. $140_{(8)}$ C. $139_{(8)}$ D. $141_{(8)}$
15	125_8 (octal) in decimal equivalent is equal to.	A. $83_{(10)}$ B. $84_{(10)}$ C. $85_{(10)}$ D. $86_{(10)}$

16	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
17	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
18	The main advantage of hexadecimal number is the ease of conversion from hexadecimal to.	A. ASCII code B. binary C. octal D. decimal
19	The hexadecimal number system is widely used in analyzing and programming in.	A. analog computers B. binary computers C. decimal computers D. micro computers
20	Base 8 is often used in computing because.	A. there are 8 bits in a byte B. calculations become easier by using base 8 C. electronic circuits can be made economically D. it can represent long strings of binary 1's and 0's in a more compact form
21	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
22	A letter, number, or a special character is represented by a.	A. bit B. kilobyte C. byte D. megabyte
23	Data items are generally classified into which type of codes	A. Numeric B. Alphanumeric C. Character D. All of the above
24	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
25	A bar code reader is an example of a(n).	A. processing device B. storage device C. Input device D. output device
26	A graph prepared by a computer.	A. is its output B. is the piece of information to user C. is a hard copy D. All of the above
27	A hard disk can be backed up efficiently using.	A. WORM B. a transaction file C. a tape backup system D. zoning
28	A computer that accepts handwritten input on a screen.	A. minicomputer B. desktop computer C. mainframe D. pen-based computer
29	A way of physically organizing data on a disk pack to minimize seek time uses.	A. sequential file B. removable hard C. the cylinder method D. Winchester technology
30	The most commonly used character code/s transmission is/are	A. EBCDIC B. ASCII C. both EBCDIC and ASCII D. neither EBCDIC nor ASCII