Fundamentals of Computing (Unit 2: Number System) Question Paper -40 MCQs

1. Which of the following is the base of the binary number system?

A)2

B)8

C)10

D)16

2. Which number system is most commonly used in computers?

A) Decimal

B) Binary

C)Octal

D) Hexadecimal

3. The base of the decimal number system is:

A)2

B)8

C)10

D)16

4. The base of the hexadecimal number system is:

A)2

B) 8

c) 10

D) 16

What digits are used in the octal number system?

A)0-9

B)0-7

C)0-15

D)11-8

6. What.is-(1010)■ in decimal?

A)10

B)8

C)6

D)12

7.Convert(125)■ to binary.

A)1111101

B)1011101

C)1001101

D)1101101

8. Convert(56) ■■ to binary

A)111000

B)111100

C)101100

D):110000

9. Convert(1010) ■ to decimal:

A)12

B)8

C)10

D)6

10. Convert (1101001)■ to decimal:

A).105

B)65

C) 110

D).120

11.Convert(304)■ to decimal:

A)196

B)168

E)200

D) 188

12. Convert (1534)■ to decimal:

A)860

B)875

C)856

D)880

13. Convert (A10)■■ to decimal:

A)2576

B)2476

C)2676

D)2586

14. Convert(BCA)■■to decimal:

AT3018

B)3008

C)3108

D)3118

15. Convert (705)■ to binary:

A)111000101

B)111001101

C)110000101

D)111010101

16. Convert (123)■ to binary:

A)1010011

B)1100110

C)1010110

D)1001101

17. Convert(10AF) ■■ to binary:

A)0001000010101111

B) 00100010101111

C)100101010111

D) 100011110001

18.Convert(1234) ■■to octal:

A)2322

B)2332

C)2422

D)2312

19. Convert (425)■■ to octal:

A)651

B)652

c)641

D)661

20.Convert (6260)■■ to octal:

A14164

B)14146

C)14264

D)14165

21. Convert (1234)■■ to hexadecimal:

A)4D2

B)4E2

G)4C2

D)4A2

22. Binary addition of 1 + 1 equals:

A)10

B) 0

C)1

D)11

Binary addition of 101■+ 10■ equals:

A)111■

B)110■

c)100■

D)101■

24. Binary subtraction rule: 0- 1 requires:

A) Borrowing

B) Direct subtraction

C)Addition

D).No operation

25.1's complement of 1011'is:

A)0100

B)0110

C)1000

D)1010

26. 2's complement of 1011 is:

A)0110

B)0101

C)0111

D)1000

27. Which is NOT a valid binary number?

A)10011

B)10110

C)12301

D)11101

28.(1001)■ in decimal is:

A)9

B10

C)8

D)12

29.(1011010111)■ in octal is:

A)1327

B)1237

C)1337

D)1317

30. Binary addition rule:1+1+1-

A)11

B)10

C)100

D)111

31. What is a nibble?

A)4 bits

B)8 bits

C) 2 bits

D) 16 bits

32. A byte consists of how many bits?

A)8

B)4

C)16

D)10

33)2' equals how many values?

A)1024

B)512

C)2048

D) 256

34. The smallest unit of data a computer can process is:

A)Bit

B) Byte

C) Nibble

D) Word

35.Which of the following uses binary code to represent digits?

A)BCD

B) ASCII

C) Unicode

D) Hexadecimal

36.The 1's complement of 110 is:

A)001

B)010

C)100

D)101

37.The 2's complement of 110 is:

A)010

B)001

C)011

D)100

38.(1010)■+(1111)■=

A)11001

B)11000

C)10101

D)11111

39. Which number system uses 0-9 and A-F?

A) Hexadecimal

B) Octal

C) Binary

D) Decimal

40. How many symbols can be represented by 8 bits?

A)256

B)128

C)512

D) 64