

SBI Clerk Computer Aptitude Questions and Answers

1. Convert the given Decimal number into Binary form – 175

1. 10001111_2

2. 11111010_2

3. 11101011_2

4. 10101111_2

5. None of these

Answer – 4.10101111_2

Explanation :

Divide the number by Short division with 2 then note down the remaining one by one. Then write it down from LSB(Least significant bit) to MSB(Most Significant Bit)

$175/2 =$ Remainder 1

$87/2 =$ Remainder 1

$43/2 =$ Remainder 1

$21/2 =$ Remainder 1

$10/2 =$ Remainder 0

$5/2 =$ Remainder 1

$2/2 =$ Remainder 0

$1/2 =$ Remainder 1

$175_{10} = 10101111_2$

2. Convert the given Binary number into Decimal form – 100111_2

1. 39

2. 71

3. 27

4. 16

5. None of these

Answer – 1.39

Explanation :

100111_2

$2^5 + 0 + 0 + 2^2 + 2^1 + 2^0$

$32 + 0 + 0 + 4 + 2 + 1 = 39$

3. Convert the given Decimal number into Octal form – 125

1. 140_8

2. 175_8

3. 125_8

4. 120_8

5. None of these

Answer – 2.175_8

Explanation :

$125/8 =$ Remainder = 5

$15/8 =$ Remainder = 7

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4. Convert the given Base 10 into Base 16 – 210

1. $2D_{16}$

2. 213_{16}

3. $D2_{16}$

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4. 132_{16}

5. None of these

Answer – $3.D2_{16}$

Explanation :

$210/16 = \text{Remainder } 2$

$13 \Rightarrow D(A=10, B=11, C=12, D=13)$

5. Convert the given Binary number into Octal number 1100110

1. 160_8

2. 164_8

3. 140_8

4. 146_8

5. None of these

Answer – 4. 146_8

Explanation :

$001 / 100 / 110$

$1/4/6$

$1100110 = 146_8$

6. Convert the given Binary number into Hexadecimal Number 1100110

1. 44_{16}

2. 88_{16}

3. 22_{16}

4. 66_{16}

5. None of these

Answer – 4. 66_{16}

Explanation :

$0110/0110$

$6/6 = 66$

7. What will be the one's complement of decimal number 33?

1. 110011

2. 100001

3. 011110

4. 001101

5. None of these

Answer – 3. 011110

Explanation :

$100001 = 32 + 0 + 0 + 0 + 0 + 1 = 33$

$100001 \Rightarrow 011110$

8. What will be the one's complement of 010010_2 ?

1. 101111

2. 101101

3. 100100

4. 110101

5. None of these

Answer – 2. 101101

Explanation :

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Just replace 0 by 1 & 1 by 0

010010 = 101101

9. Find the 2's complement of 010010_2 ?

1. 100100
2. 101101
3. 101100
4. 101110
5. None of these

Answer – 4. 101110

Explanation :

010010 = 101101

(1+0 or 0+1 =1 and 1+1 =10)

101101

1 (+)

101110

10. Convert the given Hexadecimal into the Decimal number(Base 10) – CB2

1. 25_{10}
2. 1211_{10}
3. 3250_{10}
4. 1250_{10}
5. None of these

Answer – 3. 3250_{10}

Explanation :

CB2 => 12 11 2

$12 \cdot 16^2 + 11 \cdot 16^1 + 2 \cdot 16^0$

$3072 + 176 + 2 = 3250_{10}$

11. Which protocol is used to convert IP addresses to MAC addresses?

1. IP
2. RARP
3. In ARP
4. ARP
5. None of these

Answer: 4. ARP

Explanation: The Address Resolution Protocol (ARP) feature performs a required function in IP routing. ARP finds the hardware address, also known as Media Access Control (MAC) address, of a host from its known IP address. ARP maintains a cache (table) in which MAC addresses are mapped to IP addresses.

12. Which IEEE Standards is used for Wi-Fi system?

1. 802.11
2. 802.1
3. 802.2
4. 802.3
5. 802.10

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Answer: 1. 802.11

Explanation: Wi-Fi is based on the IEEE 802.11 family of standards and is primarily a local area network(LAN) technology designed to provide in-building broadband coverage.

13. Which of the following key is a minimal super key?

1. Primary key
2. Alternate key
3. Candidate key
4. Secondary key
5. None of these

Answer: 3. Candidate Key

Explanation: A candidate key is a column, or set of columns, in a table that can uniquely identify any database record without referring to any other data. Each table may have one or more candidate keys, but one candidate key is unique, and it is called the primary key. A candidate key is a minimal super key.

14. Which of the following language defines commands GRANT and REVOKE?

1. DDL
2. DML
3. DCL
4. DQL
5. SQL

Answer: 3. DCL

Explanation: DCL (Data Control Language) is used to control the user access to the database, tables, views, procedures, functions, and packages. Using DCL command, it allows or restricts the user from accessing data in the database schema. DCL uses two commands to control access- GRANT and REVOKE.

15. The abbreviation ISP stands for____

1. International spy project
2. Indian social planning
3. Internet solution provider
4. Internet service provider
5. None of these

Answer: 4. Internet service provider

Explanation: An Internet service provider (ISP) is an organization that provides services accessing and using the Internet. Internet service providers may be organized in various forms, such as commercial, community-owned, non-profit, or otherwise privately owned.

16. A barcode is _____ code that represents data with bars of varying widths or heights.

1. optical
2. magnetic
3. laser
4. read/write
5. None of these

Answer: 1. optical

Explanation: A barcode is an optical, machine-readable, representation of data; the data usually describes something about the object that carries the barcode.

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17. Virtual memory allocates hard disk space to supplement the immediate, functional memory capacity of what?

1. ROM
2. EPROM
3. The registers
4. Extended memory
5. RAM

Answer: 5. RAM

Explanation: Most operating Systems support virtual memory, which allocates space on the hard disk to supplement the immediate, functional memory capacity of RAM.

18. Which of the following contains permanent data and gets updated during the processing of transactions?

1. Operating System File
2. Transaction file
3. Software File
4. Master file
5. Any File

Answer: 1. Operating System File

Explanation: Operating System File is a type of file that contains permanent data and gets updated later after creation or even during the processing of transactions.

19. Which of the following is used to transfer data intended for a peripheral device into a disk so that it can be transmitted to the peripheral device at a more suitable time or in bulk?

1. Virtual programming
2. Multiprogramming
3. Caching
4. Multitasking
5. Spooling

Answer: 5. Spooling

Explanation: Spooling is a technique to hold data temporarily in the computer memory and provide to devices when they need it. The temporary holding area of the memory is sometimes referred to as the buffer. One common example of spooling is printing, where files are stored in the buffer and sent to the printer when it is ready.

20. Decryption & Encryption of data is the responsibility of which layer.

1. Physical
2. Data Link
3. Presentation
4. Session
5. Application

Answer: 3. Presentation

Explanation: Presentation layer is responsible for character-code translation, data conversion, data encryption and decryption, and data translation.

21. Which of the following is used to open file menu options in current program?

1. Ctrl+F
2. Shift+F

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3. Alt+F
4. Alt+Ctrl+F
5. Tab+F

Answer: 3. Alf+F

22. What is the term that refers to an ad hidden inside software that you downloaded from an internet site?

1. Spam
2. Cookie
3. Phish
4. Adware
5. None of these

Answer: 4. Adware

Explanation: Adware is software that automatically displays or downloads advertising material such as banners or pop-ups when a user is online.

23. Which of the following is the type of software that controls the internal operations in the computer and controls how the computer works with all its parts?

1. Shareware
2. Public domain software
3. Application software
4. Operating system software
5. None of these

Answer: 4. Operating system software

Explanation: An operating system (OS) is a program or software that manages and coordinates the functions of all the components of a computer. It also acts as an interface between the user and the hardware of a computer.

24. The term referring to a person who uses his or her expertise to gain access to other people's computers to get information illegally or do damage?

1. hacker
2. analyst
3. instant messenger
4. programmer
5. spammer

Answer: 1. hacker

Explanation: Hacker is someone who seeks and exploits weaknesses in a computer system.

25. Computer language COBOL is appropriate for—

1. Commercial purpose
2. Graphic purpose
3. Scientific purpose
4. All
5. None of these

Answer: 1. Commercial purpose

Explanation: COBOL (Common Business Oriented Language) is a programming language that reads like regular English and is often used for business and administrative purposes.

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26. If Δ represents '0' and \circ represents '1'. What will be the one's complement of

$\Delta\circ\Delta\Delta\circ\circ?$

- 1.101100
- 2.010011
- 3.100110
- 4.001100
- 5.None of these

Answer – 1.101100

Explanation :

$\Delta\circ\Delta\Delta\circ\circ \Rightarrow 010011$

010011 1's complement is 101100

27. The code $\Delta\Delta\circ\Delta\circ\Delta\Delta$ represents

- 1.26
- 2.12
- 3.20
- 4.16
- 5.None of these

Answer – 3.20

Explanation :

$\Delta\Delta\circ\Delta\circ\Delta\Delta \Rightarrow 0010100$

$16+0+4+0+0=20$

28. Hexadecimal is a positional numeral system with a radix

- 1.8
- 2.2
- 3.10
- 4.16
- 5.None of these

Answer – 4.16

Explanation :

In mathematics and computing, hexadecimal (also base 16, or hex) is a positional numeral system with a radix, or base, of 16. It uses sixteen distinct symbols, most often the symbols 0–9 to represent values zero to nine, and A, B, C, D, E, F (or alternatively a, b, c, d, e, f) to represent values ten to fifteen.

29. Which among the following is an appropriate Octal conversion for 10101001?

- 1.125
- 2.152
- 3.251
- 4.521
- 5.None of these

Answer – 3.251

Explanation :

$010 = 2$

$101 = 5$

$001 = 1$

$10101001 = 251$

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30. If P and Q are the inputs, then output $X = P+Q$ is the output of

- 1.NOR
- 2.NAND
- 3.AND
- 4.OR
- 5.None of these

Answer – 4.OR

Explanation :

A =1, B= 0

Then $y =1+0 = 1$