Question Bank
Class XI
Subject: Computer Science

CHAPTER 1: Computer System Overview

Questions

1. Define a computer system.
2. What are the components of a computer system?
3. Differentiate between hardware and software.
4. What is the role of CPU?
5. Define ALU and CU.
6. What is primary memory? Give examples.
7. Difference between RAM and ROM.
8. What is secondary storage?
9. What is an operating system?
10. Give examples of system software and application software.

A) Identify the following peripherals as INPUT device or OUTPUT device.
1. Monitor _____
2. Keyboard _____
3. Scanner _____
4. Laser Printer _____
5. Mouse _____
. Speakers _____
7. Digital Camera _____
B) Fill in the blank with the correct answer from the box. Some may be used more than once or not at all.
1. I connect computers and allow them to talk to each other. _____
2. I wake up the computer and remind it what to do. _____
3. I am the brain of the computer. _____
4. Information is stored on my magnetic cylinders. _____
5. I hold all of the other circuit boards. _____
6. I handle the graphics that are displayed on the monitor. _____
7. I am the type of port used by flash drives _____

Q1. Explain the types of Memory of Computer with example.

Q2. What do you mean by Firmware? Explain the use of BIOS?

Q3. What is computer? Explain the main components of computer system with block diagram ?

Q4. Explain types of Computer based on size and performance with example?

Q5. What is the difference between Multi user Operating System and Multi processing Operating System.

Q6. What is Operating System? Explain the functions of Operating System?

Q7. What is ROM? Explain about different types of ROM.

Q8. What do you mean by Peripheral Device? Name two Peripheral Devices of Computer?

Q9 Explain following Terms? (a) Printer (b) Keyboard (c) Mouse (d) Arithmetic Logic unit

Q10. Which of the following is designed to control the operations of a computer?

a) Application Software b) System Software c) Utility Software d) User

Ch-2 Data Representation

Q1. The hexadecimal digits are 1 to 0 and A to _____?

a) E b) F c) G d) D

Q2. ASCII is a _____ bit code and ISCII is a _____ bit code.

a) 8, 7 b) 7, 8 c) 8, 8 d) 7, 7

Q3. According to the distributive law A (B+C) = _____.

a) ABC b) AB+AC c) A+B+C d) A+BC

Q4. Convert the following:

(i)(4A)16=(_____)2

(ii) (106)10=(_____)8

Q5. Convert the decimal number 106 to

a) binary and b) octal.

Q6. ASCII uses ____ bits to represent Characters.

a) 5 b) 6 c) 7 d) 8

Q7. How many bits forms a Kilo Byte?

a) 8194 Bits b) 8192 bits c) 4096 bits d) 1024 bits

Q8. Convert the following number in to given numbers:

a) (345.24)10 =( )2 b) (A35.57)16 =( )8

Q9. Convert the following numbers in the given equivalent number system.

a). (234.56)10 = ( )2 b) (1101111.11011)2 = ( )16

Q10. Full form of USB

a) Uniform Service Bus b) Universal Serial Bus c). Universal Sector Buffer d) Universal Service Bus Unit –

Ch-3 Boolean Algebra

Q1. Which is Universal Gate?

a) AND Gate b) OR Gate c) NOR Gate d) NOT Gate

Q2. Which gate returns true if both inputs are similar otherwise false.

a) NAND b) NOR c) XOR d) None of the above

Q3. Which of the following is / are the universal logic gates?

a) OR and NOR b) AND c) NAND and NOR d) NOT

Q4. Write the equivalent Boolean expression for the following Logic circuit.

a) (P+Q').(Q+R')
b) b) (P'+Q).(Q+R')
c) c) (P'+Q').(Q'+R)
d) d) (P'+Q').(Q'+R')

Q5. DE Morgan's Law states that

a) (AB)' = A' + B' b) (A+B)' = A' * B c) (A'+B') = A'.B' d) (AB)' = A'+B

Q6. Draw a Logic Diagram of given Boolean Expression F(X,Y,Z) = ((X'+Y).(X+Y'+Z))'

Q7. Draw Truth Table of given Boolean Expression F(A,B,C) = ((A.B)+C)(A+C)

Q8. Draw the logic circuit diagram for the expression: X=AB'+B'C'+ABC.

Q9. Write the truth table for NOR gate.

Q10. Construct the logic circuit of the given Boolean Expression?

F (A, B, C, D) = (A+B) C + (ABCD)' + (AB)'+CD

📓 CHAPTER 4 :Introduction to Problem Solving

Answer the Following Questions (Very Short Answers)

i. Define Algorithm
ii. What is decomposition?
iii. Why do we need Algorithm?
iv. What is meant by Debugging?
v. Write difference between algorithm and flowchart.
vi. Write the pseudocode to print all multiples of 5 between 10 and 25 (including both 10 and 25).
vii. Write an algorithm to find the greatest among two different numbers
viii. Write a pseudocode to calculate the factorial of a number
ix. Write an algorithm to find greatest among three numbers
x. Is 'None' and None same? Explain Why.

📓 CHAPTER 5: Getting Started with Python

Questions

1. What is Python? List its features.
2. What is an IDLE?
3. Write Two modes of Python
4. Differentiate between Script mode & interactive mode
5. Give Syntax of Print statement with parameters
6. Write a program to input two numbers and print their sum.

📓 CHAPTER 6: Python Fundamentals

Questions

1. What are data types in Python?
2. Difference between mutable and immutable types.
3. What is type casting?
4. Explain numeric data types.
5. What is Boolean type?
6. What is string?
7. What is None type?

8. Difference between list and tuple.
9. What is dictionary?
10. Give examples of each data type.

📚 CHAPTER 7 :Data Handling

Questions

1. What is empty statement in Python? What is its need?
2. Write a program to check a character is vowel or not
3. Write a program to check whether a years is leap year or not.
4. What is syntax error? Give one example.
5. What is the difference between mutable and immutable data types?
6. What is the difference between the Logical error and runtime error

CHAPTER 8 :Introduction to Python Modules

Very Short Answer Questions

1. What is a module in Python?
2. Why are modules used in Python?
3. Name any two built-in Python modules.
4. Which keyword is used to import a module in Python?
5. What is the difference between a module and a package?
6. Write the syntax to import the math module.
7. Which function is used to display all functions of a module?
8. What is the purpose of the random module?
9. Which module is used for working with dates and time?
10. What is the use of the as keyword while importing modules?

Short Answer Questions

11. Explain the advantages of using modules in Python.
12. Differentiate between user-defined modules and built-in modules.
13. Explain the following import statements with examples:

- import module_name
- from module_name import function_name
- import module_name as alias

14. Write a Python program to find the square root of a number using the math module.
15. Write a program to generate a random integer between 1 and 100 using the random module.
16. Explain the use of the following functions:

- math.sqrt()

- math.factorial()
- random.randint()
- random.choice()

17. Write a program to display the current date and time using the datetime module.
18. What happens if two modules have functions with the same name? Explain with an example.
19. Explain how user-defined modules are created and imported in Python.
20. Write a program using the calendar module to display the calendar of a given month and year.

Multiple Choice Questions (MCQs)

21. Which module is used for mathematical operations?
    a) random
    b) math
    c) calendar
    d) os
22. Which function is used to generate a random floating-point number?
    a) randint()
    b) random()
    c) sqrt()
    d) choice()
23. Which keyword is used to include a module in Python?
    a) include
    b) using
    c) import
    d) define
24. Which module is used to work with operating system files and folders?
    a) os
    b) math
    c) random
    d) time
25. What will math.factorial(5) return?
    a) 25
    b) 120
    c) 60

📄 CHAPTER 9 :Flow of Control

Conditional Statements

Questions

1. What are conditional statements?
2. Explain if statement with syntax.
3. What is if-else statement?
4. What is nested if?
5. Difference between if-elif-else.

6. What is indentation?

Iterative Statements (Loops)

Questions

1. What is a loop?
2. Difference between for loop and while loop.
3. What is range() function?
4. What is infinite loop?
5. What is break statement?
6. What is continue statement?
7. What is pass statement?
8. Write a program to print numbers 1–10.
9. Write a program calculates the roots of the quadratic Equation.

Basic Programming Questions

1. Write a program to check whether a number is positive, negative, or zero.
2. Write a program to check whether a number is even or odd.
3. Write a program to find the greater of two numbers.
4. Write a program to find the largest among three numbers using if-elif-else.
5. Write a program to check whether a year is a leap year or not.
6. Write a program to check whether a character entered is a vowel or consonant.
7. Write a program to calculate the electricity bill according to the following conditions:
    - First 100 units → ₹5 per unit
    - Next 100 units → ₹7 per unit
    - Above 200 units → ₹10 per unit
8. Write a program to accept percentage marks and display grades according to the following:
    - 90 and above → A
    - 75–89 → B
    - 50–74 → C
    - Below 50 → Fail

Questions on Loops

9. Write a program to print numbers from 1 to 10 using a while loop.
10. Write a program to print numbers from 10 to 1 using a for loop.
11. Write a program to find the sum of first n natural numbers.

12. Write a program to find the factorial of a number.
13. Write a program to print the multiplication table of a number entered by the user.
14. Write a program to count the number of digits in a number.
15. Write a program to reverse a number using a loop.
16. Write a program to check whether a number is palindrome or not.
17. Write a program to check whether a number is Armstrong or not.
18. Write a program to display Fibonacci series up to n terms.
19. Write a program to find the sum of digits of a number.
20. Write a program to print all even numbers between 1 and 100.

Nested Loop Questions

21. Write a program to print the following pattern:

```
*
**
***
****
*****
```

22. Write a program to print the following pattern:

```
1
12
123
1234
12345
```

23. Write a program to print the following pattern:

```
*****
****
***
**
*
```

24. Write a program to print a square pattern of stars of size n.
25. Write a program to print the following pattern:

```
  *
 ***
```

*****
****

Questions on Break, Continue, and Pass

26. Write a program to demonstrate the use of break statement.
27. Write a program to demonstrate the use of continue statement.
28. Write a program to print numbers from 1 to 20 but skip multiples of 3.
29. Write a program that stops printing numbers when the user enters a negative number.
30. Write a program showing the use of pass statement.

📓 CHAPTER 10: Strings

Questions

1. What is a string?
2. How are strings indexed?
3. What is slicing?
4. Difference between + and * operators in string.
5. What are string functions?
6. Explain upper(), lower().
7. What is string immutability?

Basic String Programs

1. Write a program to input a string and display it character by character.
2. Write a program to count the total number of characters in a string.
3. Write a program to count the number of vowels and consonants in a string.
4. Write a program to check whether a given string is a palindrome or not.
5. Write a program to reverse a string without using slicing.
6. Write a program to convert a string into uppercase and lowercase.
7. Write a program to count the number of spaces in a string.
8. Write a program to count the occurrence of a particular character in a string.
9. Write a program to remove all spaces from a string.
10. Write a program to replace a word in a string with another word.

String Slicing and Operations

11. Write a program to display the first and last character of a string.
12. Write a program to extract a substring using slicing.
13. Write a program to print alternate characters of a string.
14. Write a program to concatenate two strings entered by the user.
15. Write a program to check whether a substring exists in a string or not.
16. Write a program to count the frequency of each character in a string.
17. Write a program to find the length of a string without using len().
18. Write a program to compare two strings.
19. Write a program to display the ASCII value of each character in a string.
20. Write a program to remove duplicate characters from a string.

String Functions Programs

21. Write a program demonstrating the use of the following string functions:

- upper()
- lower()
- title()
- capitalize()

22. Write a program demonstrating the use of:

- find()
- count()
- replace()

23. Write a program to split a sentence into words using split().
24. Write a program to join a list of words into a string using join().
25. Write a program to check whether a string starts with a particular word using startswith().
26. Write a program to check whether a string ends with a particular word using endswith().
27. Write a program to remove extra spaces from a string using strip().
28. Write a program to check whether a string contains only digits using isdigit().
29. Write a program to check whether a string contains only alphabets using isalpha().
30. Write a program to check whether a string is alphanumeric using isalnum().

📄 CHAPTER 11: List Manipulation

Questions

1. What is a list?
2. Difference between list and tuple.
3. What is list slicing?
4. Explain append(), insert(), remove().
5. What is nested list?
6. What is list comprehension?
7. Write a program to find largest element.
8. Sort a list.
9. Count elements in list.
10. Difference between shallow copy and deep copy (basic idea).

Multiple Choice Question

Q.1 The data type list is an ordered sequence which is made up of one or more elements.
(a) Mutable (b) Immutable (c) Both a and b (d) None of the above

Q.2 Which statement from the list below will create a new list?
(a) new_l = [1, 2, 3, 4] (b) new_l = list() (c) Both a and b (d) None of the above

Q.3 What will be the output of the following python code
new_list = [‘P’,’y’,’t’,’h’,’o’,’n’]
print(len(new_list))
(a) 6 (b) 7 (c) 8 (d) 9

Q.4 We can access each element of the list or traverse a list using.
(a) for loop (b) while loop (c) Both a and b (d) None of the above

Q.5 What will be the output of the following python code?
new_list = “1234”
print(list(new_list))
(a) [‘1’, ‘2’, ‘3’, ‘4’] (b) (‘1’, ‘2’, ‘3’, ‘4’) (c) {‘1’, ‘2’, ‘3’, ‘4’} (d) None of the above

Q.6 Suppose list1 is [2, 33, 222, 14, 25], What is list1[-1] ?
(a) Error (b) None (c) 25 (d) 2

Q.7 Suppose list1 is [1, 3, 2], What is list1 * 2 ?
(a) [2, 6, 4] (b) [1, 3, 2, 1, 3] (c) [1, 3, 2, 1, 3, 2] (d) [1, 3, 2, 3, 2, 1]

Q.8 Write the output of the following code :
list(“welcome”)
(A) [‘w’, ‘e’, ‘l’, ‘c’, ‘o’, ‘m’, ‘e’](B) (‘w’, ‘e’, ‘l’, ‘c’, ‘o’, ‘m’, ‘e’)(C) [‘welcome’] (D) None

Q.9 Write the output of the following code :
L=list(“abcdefgh”)
print(L[4 : -2])
(a) [‘e’ , ‘f’] (b) [‘d’, ’e’ , ‘f’] (c) (def) (d) Error

Q.10 Write the output of the following code :
>>>L=[1,2,3,4,5,[6,7,8]]
>>>print(L[5])
(a) [6, 7, 8] (b) 6, 7, 8 (c) Error (d) 6

Competency Based Question

Q.1 Differentiate between append () and extend ()
Q.2 Differentiate between List and string.
Q.3 Write a program to increment the elements of a list with a number?
Q.4 WAP to calculate the mean of the given list of numbers.
Q.5 Write a program to print list having numbers less than 20.
Q.6 What will be the output of the following program?

```
l=[6,12,18,24,30]
for i in l:
    for j in range(1,i%4):
        print(j,'#',end='')
    print( )
```

Q.7 Write a program that reverses a list of integers.
Q.8 Write a program to find the number of times an element occurs in the list.
Q.9 Write a program to find the largest and smallest number in a list.
Q.10 Write a program to check if a number is present in the list or not. If the number is present, print the position of the number. Print an appropriate message if the number is not present in the list.

Basic List Programs

1. Write a program to create a list of 10 numbers and display it.
2. Write a program to input 5 elements in a list and display them.
3. Write a program to find the length of a list without using len().
4. Write a program to find the largest element in a list.
5. Write a program to find the smallest element in a list.
6. Write a program to find the sum of all elements in a list.
7. Write a program to find the average of elements in a list.
8. Write a program to count even and odd numbers in a list.
9. Write a program to display all positive numbers from a list.
10. Write a program to display all negative numbers from a list.

List Manipulation Questions

11. Write a program to append an element to a list.
12. Write a program to insert an element at a specific position in a list.
13. Write a program to delete an element from a list using remove().
14. Write a program to delete an element using pop().
15. Write a program to clear all elements from a list.
16. Write a program to copy one list into another list.
17. Write a program to concatenate two lists.

18. Write a program to reverse a list.
19. Write a program to sort a list in ascending order.
20. Write a program to sort a list in descending order.

Searching and Counting Programs

21. Write a program to search an element in a list.
22. Write a program to count the occurrence of an element in a list.
23. Write a program to find the index position of an element in a list.
24. Write a program to check whether an element exists in a list or not.
25. Write a program to remove duplicate elements from a list.
26. Write a program to find the second largest element in a list.
27. Write a program to find the second smallest element in a list.
28. Write a program to find common elements between two lists.
29. Write a program to merge two sorted lists into a single sorted list.
30. Write a program to find frequency of each element in a list.

CHAPTER 12: Tuples

Questions

1. What is a tuple?
2. Difference between list and tuple.
3. What is tuple packing and unpacking?
4. Why tuples are immutable?
5. What is single-element tuple?
6. Write program to create tuple.
7. Access tuple elements.
8. What is tuple slicing?
9. Count elements in tuple.
10. Convert list to tuple.

Multiple Choice Question

Q.1 What type of error is returned by following code :
a=(“Amit”, “Sumit”,”Ashish”,”Sumanta”)
print(a.index(“Suman”))
(a) Syntax Error (b) Value Error (c) Type Error (d) Name Error

Q.2 What is the length of the given tuple? >>> t1=(1,2,(3,4,5))
(a) 1 (b) 2 (c) 3 (d) 4

Q.3 Which of the following statements will return an error. T1 is a tuple.
(a) T1 + (23) (b) T1 + [3] (c) Both (a) & (b) (d) None

Q.4 What is the output of following code?

>>> t1=(1,2,(3,4,5,2))
>>> print(len(t1[2]))
(a) 1 (b) 2 (c) 3 (d) 4

Q.5 Which of the following is not a tuple?
(a) P = 1,2,3,4,5 (b) Q = ('a', 'b', 'c') (c) R = (1, 2, 3, 4) (d) None

Q.6 Which of the following is/are features of tuple?
(a) Tuple is immutable (b) Tuple is a sequence data type.
(c) In tuple, elements are enclosed in Parenthesis(d) All of the above

Q.7 Which of the following is not a function of tuple?
(a) update( ) (b) min( ) (c) max( ) (d) count( )

Q.8 Which of the following is/are features of tuple?
(a) Tuple is immutable (b) Tuple is a sequence data type.
(c) In tuples, elements are enclosed in Parenthesis. (d) All of the above

Q.9 Which of the following is a tuple with a single element?
(a) t = (1,) (b) t = 1, (c) Both (a) & (b) (d). None of the above

Q.10 Rahul wants to delete all the elements from the tuple t, which statement he should use
(a) del t (b)clear() (iii) t.remove() (iv) None of these

📓 CHAPTER 13: Dictionaries

Questions

1. What is dictionary?
2. Difference between list and dictionary.
3. What are keys and values?
4. What is dict() function?
5. Explain get(), keys(), values().
6. Add element in dictionary.
7. Delete element from dictionary.
8. Write program to count frequency.
9. What is nested dictionary?
10. Difference between mutable and immutable keys.

COMPETENCY BASED QUESTIONS

1. Write a Python function to count the frequency of each word in a given string and store the result in a dictionary.

E g.Input: "Hello world, hello python"

Output: {"Hello": 2, "world": 1, "python": 1}

2. Create a dictionary to store student information, including name, age, and grade. Write a function to add a new student and another function to retrieve a student's information by name.

3. Given a dictionary of student grades, write a function to calculate the average grade for each

student and return the result in a new dictionary.

Input: {"John": [80, 70, 90], "Jane": [90, 80, 70]}

Output: {"John": 80.0, "Jane": 80.0}

4. Write a function to merge two dictionaries and return the result.

Input: dict1 = {"a": 1, "b": 2}, dict2 = {"c": 3, "d": 4}

Output: {"a": 1, "b": 2, "c": 3, "d": 4}

5. Create a dictionary to store book information, including title, author, and price. Write a function to find the average price of books by a specific author.

6. Given a dictionary of employee data, write a function to find the highest salary and return the employee's name and salary.

Input: {"John": 50000, "Jane": 60000, "Bob": 70000}

Output: ("Bob", 70000)

7. Write a function to remove duplicate values from a dictionary and return the result.

Input: {"a": 1, "b": 2, "c": 1, "d": 3}

Output: {"a": 1, "b": 2, "d": 3}

8. Create a dictionary to store city information, including name, population, and country.

9. With respect to Q. 8 , Write a function to find cities with a population greater than a given

threshold.

10. Write a small project using the concept learnt so far.

PROGRAMMING QUESTIONS

1. Write a Python program to create a dictionary that stores the names of students as keys and their respective grades as values. The program should also calculate the average grade of all students.

2. Develop a Python program that utilizes a dictionary to store the details of employees in a company, including their names, ages, and salaries. The program should also calculate the total salary expenditure.

3. Create a Python dictionary that stores the names of cities as keys and their respective populations as values. Write a program that includes functions to find the city with the highest population.

4. Design a Python program that employs a dictionary to store the details of books in a library,

including their titles, authors, and publication years. The program should also find books by a specific author.

5. Write a Python program that utilizes a dictionary to store the details of customers in an e-commerce platform, including their names, addresses, and order histories. The program should find the customer with the highest total order value.

6. Develop a Python program that uses a dictionary to store the details of courses in an online learning platform, including their titles, descriptions, and prices. The program should find courses by a specific title.

7. Create a Python dictionary that stores the names of countries as keys and their respective capitalsas values. Write a program that finds the capital of a specific country, calculate the number of countries in the dictionary, and add a new country to the dictionary.

8. Design a Python program that employs a dictionary to store the details of patients in a hospital, including their names, ages, and medical records. The program should find patients by a specific age range.

9. Write a Python program that utilizes a dictionary to store the details of products in an inventory management system, including their names, quantities, and prices. The program should update the quantity of a product.

10. Develop a Python program that uses a dictionary to store the details of flights in an airline management system, including their numbers, departure times, and arrival times. The program should find flights based on its number, and add a new flight to the dictionary.

CHAPTER 14: Cyber Safety

Very Short Answer Questions

1. What is cyber safety?
2. What is the Internet?
3. Define cybercrime.
4. What is phishing?
5. What is hacking?
6. What is malware?
7. Name any two types of malware.
8. What is a computer virus?
9. What is spam email?
10. What is identity theft?
11. What is a firewall?
12. What is antivirus software?
13. What is cyber bullying?
14. What is strong password authentication?
15. What is data privacy?
16. What is encryption?
17. What is OTP?
18. What is digital footprint?
19. What is ransomware?
20. What is two-factor authentication?

Short Answer Questions

21. Explain the importance of cyber safety.
22. Differentiate between hacking and phishing.
23. Explain any four cyber threats.
24. What precautions should be taken while using social media?
25. Explain the role of antivirus software in cyber safety.
26. What are the characteristics of a strong password?
27. Explain the term “digital footprint” with an example.
28. What is cyber bullying? How can it be prevented?
29. Explain the importance of data backup.
30. What are cookies in web browsers?
31. Explain the role of firewall in network security.
32. What is online fraud? Explain with examples.
33. Differentiate between virus, worm, and Trojan horse.
34. Explain the importance of software updates in cyber security.
35. What are safe online banking practices?

Long Answer Questions

36. Explain different types of cyber crimes in detail.
37. Discuss various measures to ensure cyber safety while browsing the Internet.
38. Explain different types of malware and their effects on computers.
39. Discuss the advantages and disadvantages of social networking sites from cyber safety perspective.
40. Explain how encryption helps in maintaining data security.
41. Discuss the importance of cyber ethics in modern society.
42. Explain various methods used by cyber criminals to steal information online.
43. Write detailed notes on:

- Phishing
- Spamming
- Identity Theft
- Cyber Stalking

44. Explain the role of government and individuals in maintaining cyber security.
45. Discuss the importance of cyber awareness among students.

CHAPTER 15: Society Law and Ethics

Multiple choice questions

1) *Which of the following best describes a digital footprint?*

A. The physical trails left behind by someone on the internet
B. The environmental impact of digital devices
C. The collection of all the traces and activities someone leaves online
D. The programming languages used in digital technology

2) *What can contribute to your digital footprint?*

A. Browsing websites
B. Posting on social media
C. Sending emails
D. All of the above

3) *Which of the following actions can help you manage and reduce your digital footprint?*

A. Regularly clearing your browser history and cookies
B. Using strong, unique passwords for different accounts
C. Adjusting privacy settings on social media platforms

D. All of the above

4) *Which of the following is considered good netiquette when participating in an online discussion?*

A. Using all caps to emphasize your points
B. Respecting others' opinions and responding politely
C. Posting off-topic comments
D. Ignoring other participants' contributions

5) *What should you do if you receive an email that appears to be a phishing attempt?*

A. Forward it to all your contacts
B. Click on any links to verify if they are safe
C. Delete the email and report it to your email provider
D. Reply to the email asking for more information

6) *When composing an email, which of the following practices is considered appropriate netiquette?*

A. Using informal language regardless of the recipient
B. Keeping your message clear and concise
C. Ignoring spelling and grammar errors
D. Using vague subject lines

7) *What is the primary purpose of data protection laws?*

A. To prevent data from being stored
B. To ensure the free flow of data
C. To safeguard personal information from unauthorized access or disclosure
D. To make data publicly available

8) *Which of the following is a key principle of the General Data Protection Regulation (GDPR)?*

A. Data must be processed unlawfully
B. Data can be collected without any specific purpose
C. Individuals have the right to access and control their personal data
D. Personal data must be stored indefinitely

9) *Which practice helps protect data when sharing it electronically?*

A. Sending data over unencrypted email
B. Using strong passwords and encryption
C. Sharing passwords with others
D. Keeping default security settings

10) *Which of the following is an example of phishing?*

A. Installing antivirus software
B. Sending emails that appear to be from a legitimate source to steal personal information
C. Developing a new software application
D. Creating a strong password

11) *Which type of cyber-crime involves taking control of someone's computer to use it for*

sending spam or launching attacks?

A. Identity theft
B. Hacking
C. Ransomware
D. Botnet

12) *What is the primary goal of ransomware?*

A. To steal personal information for identity theft
B. To encrypt the victim's data and demand payment for the decryption key
C. To create backup copies of data
D. To monitor internet usage

13) *Which of the following is a good practice to ensure cyber safety when using public Wi-Fi?*

A. Accessing sensitive accounts, such as online banking
B. Using a VPN (Virtual Private Network)
C. Disabling firewall protection
D. Sharing personal information freely

14) *What is two-factor authentication (2FA)?*

A. A method of logging into accounts using two different passwords
B. A security process in which the user provides two different authentication factors to verify themselves
C. A way to create a backup of your data
D. A method of encrypting files on your computer

15) *Which of the following actions can help protect against malware infections?*

A. Clicking on unknown links in emails
B. Regularly updating your software and operating system
C. Downloading files from untrusted sources
D. Disabling antivirus software

16) *Which of the following best describes malware?*

A. Software designed to protect your computer from viruses
B. Malicious software intended to damage or disable computers and computer

systems
C. A type of hardware that speeds up your computer
D. An operating system feature

17) *What type of malware disguises itself as legitimate software but performs malicious activities?*

A. Virus
B. Trojan Horse
C. Worm
D. Spyware

18) *Which type of malware replicates itself in order to spread to other computers?*

A. Adware
B. Spyware
C. Worm
D. Ransomware

19) *What is the primary goal of e-waste management?*

A. To increase the production of electronic devices
B. To dispose of electronic waste in landfills
C. To recycle and properly dispose of electronic waste to minimize environmental impact
D. To store electronic waste indefinitely

20) *Which of the following is a common practice in e-waste recycling?*

A. Burning electronic devices to retrieve metals
B. Disposing of electronic waste in household trash bins
C. Dismantling electronic devices to recover valuable materials
D. Using electronic devices as landfill cover

21) *What is a significant environmental concern associated with improper e-waste disposal?*

A. Increase in the production of new electronics
B. Contamination of soil and water with toxic substances
C. Decrease in electronic device prices
D. Improvement in landfill efficiency

22) *Which of the following is a primary objective of the Information Technology Act, 2000?*

A. To regulate the use of mobile phones
B. To provide legal recognition for electronic transactions
C. To establish guidelines for television broadcasting
D. To manage public libraries

23) *Which of the following is considered a cybercrime under the Information Technology Act,*

2000?

A. Unauthorized access to computer systems
B. Physical theft of hardware
C. Traditional forms of fraud
D. Plagiarism in academic writing

24) *Which of the following is an important consideration regarding gender and computer use in education?*

A. Providing equal access to computer labs for all students
B. Restricting computer use based on gender preferences
C. Limiting girls' access to programming courses
D. Allowing only boys to use advanced software tools

25) *In the context of disability issues, which technology feature is essential for enhancing accessibility when using computers?*

A. Monochrome displays
B. Voice recognition software
C. Limited keyboard functionality
D. Older operating system versions