CUET UG 2026

Computer Science
Informatics Practices

TOP 50
PYQ + MCQ

PART 2

By. Ashutosh Srivastav
State Topper (BTEUP)

Previous Year Questions

Section A+B1+B2

DOMAIN / LATERAL STUDENTS

Q.26

Find the output of the code:

```
answer=[ ]
output=''
answer.append('F')
answer.append('I')
answer.append('L')
ch=answer.pop()
output=output+ch
ch=answer.pop()
output=output+ch
ch=answer.pop()
output=ch
print("Result=",output)
```

1. Result=FIL
2. Result=LIF
3. Result=F
4. Result=L

4

[F , I , L]

output = I

ch = F

output = ''+F = F

ch = F + I = FI

ch = I

output = FIL

Q.27

Identify the term coined for:

In this attack, the hacker taps or listens to a channel of communication by picking all of the network traffic passing through it.

1. Eavesdropping
2. Snooping
3. Traffic Flooding
4. Denial of Service

1

Options 1. 1

2. 2

3. 3

4. 4

Q.28

Which search technique the given steps are associated with?

Step 1: SET first = 0, last = n-1

Step 2: Calculate mid = (first+last)//2

floor division decimal value ignored

1. Searching by Hashing
2. Collision
3. Binary Search
4. Linear Search

3

Options 1. 1

2. 2
3. 3
4. 4

Q.29

Match **List-I** with **List-II**

List-I	**List-II**
(A) Primary key	(I) The number of tuples in a relation.
(B) Cardinality	(II) To relate two tables or relations.
(C) Foreign key	(III) Default
(D) Database constraints	(IV) Unique identification of tuples.

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

1

Q.30

Identify the correct program code to open the text file in write mode only.

Note:(If the file already exists, all the contents will be overwritten. If the file doesn't exist, then a new file will be created.)

1. myObject=open("myfile.txt", "a+")
2. myObject=open("myfile.txt", "w")
3. myObject=open("myfile.txt", "wb")
4. myObject=open("myfile.txt", "w+")

2

Q.31

_____ is a communication protocol which establishes a dedicated and direct connection between two communicating devices. This protocol defines how two devices will authenticate each other and establish a direct link between them to exchange data.

1. File Transfer Protocol (FTP)
2. HyperText Transfer Protocol (HTTP)
3. Point to Point Protocol (PPP)
4. Transmission Control Protocol (TCP) / Internet Protocol (IP)

Options 1. 1

2. 2

3. 3

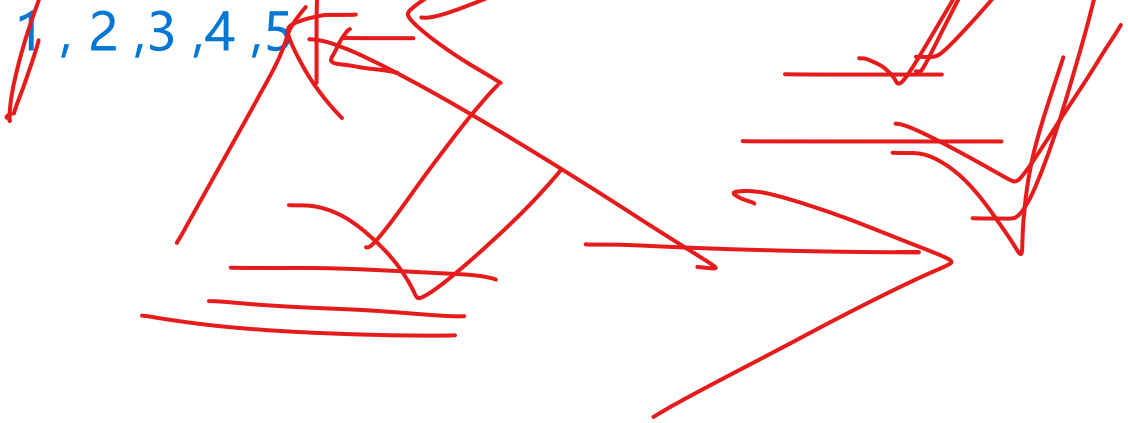
4. 4

3

Q.32

Identify the ***incorrect*** example related to application of queues.

1. Sending print commands from multiple files from the same computer or from different computers using a shared printer.
2. A web-server hosting a web-site to declare result(s). To serve thousands of user requests, a Queue would be the most appropriate data structure to use.
3. To maintain browser history, once a tab is closed and if you press ctrl+shift+T, the most recently closed URL is opened first. As the number of URLs stored is fixed, so when this list of URLs becomes large, URLs from the end of the list (i.e. which were least visited) gets deleted.
4. In a multitasking operating system, jobs are lined up and then given access to the processor according to some order.



Options

1. 1
2. 2
3. 3
4. 4

Q.33

Apply bubble sort technique to sort a list of elements:

numList2 = [8, 7, 6, 5, 4]. Show the positions of elements in the list after pass 1.

1. 7 6 4 5 8
2. 4 5 6 7 8
3. 7 6 5 4 8
4. 7 6 5 8 4

8 , 7 , 6 ,5 , 4

8 , 7 , 6 ,5 , 4
7 , 8 , 6 , 5 ,4
7 , 6 ,8 ,5 ,4
7 ,6 , 5 ,8 ,4
7 , 6 ,5 , 4 , 8

Options 1. 1

2. 2
3. 3
4. 4

Q.34

When we deal with personal information, banking credentials and passwords on websites, we need to communicate data more securely over the network using HTTPS. HTTPS encrypts the data before transmission. At the receiver end, it decrypts to recover the original data. The HTTPS based websites require _____.

1. Credential Certificate
2. SSL Digital Certificate
3. SOL Digital Certificate
4. Secure Certificate

Solid Security Layer

Options

1. 1
2. 2
3. 3
4. 4

Q.35

Arrange the steps of handling exceptions in order:

(A) The exception object is handed over to the runtime system so that it can find an appropriate code to handle this particular exception.

(B) If the runtime system is not able to find an appropriate exception after searching all the methods in the call stack, then the program execution stops.

(C) The runtime system searches the entire program for a block of code, called the exception handler that can handle the raised exception.

(D) When an error occurs, Python interpreter creates an object called the exception object.

Choose the **correct** answer from the options given below:

1. (A), (B), (C), (D)
2. (D), (C), (B), (A)
3. (D), (B), (A), (C)
4. (D), (A), (C), (B)

4

Options

1. 1
2. 2
3. 3
4. 4

Q.36

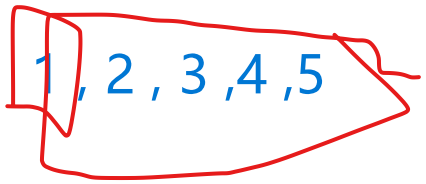
Sequence to check if a queue is empty and handle underflow in a programming context:

(A). Attempt to dequeue an element.

(B). Check if the queue is empty.

(C). Return an error message if empty.

(D). Proceed with dequeue if not empty.



2 , 3 ,4 ,5

Choose the **correct** answer from the options given below:

1. (A), (B), (C), (D)
2. (D), (B), (C), (A)
3. (A), (C), (B), (D)
4. (D), (C), (B), (A)

Options 1. 1

2. 2

3. 3

4. 4

Q.37

1 Giga bits per second=_____

1. 2^{10} bits per second
2. 2^{20} bits per second
3. 2^{30} bits per second
4. 2^{40} bits per second

1 kb = 2^10
1 mb = 2 ^ 20
1 gb = 2^30

Options 1. 1
2. 2
3. 3
4. 4

Q.38

While working with text files, each line of a text file is terminated by a special character, called _____

1. EOF (End of file)
2. EOL (End of line)
3. EOT (End of text)
4. EOW (End of working)

2

Options 1. 1

2. 2

3. 3

4. 4

Q.39

Identify the concept being associated with given characteristics:

a) Data stored in terms of bytes (0s and 1s)

b) Not human readable

c) No translation of data required

d) Faster in execution

3

1. Text files
2. CSV files
3. Binary files
4. Data number files

Q.40

Which of the following returns a string type value?

1. mod()
2. instr()
3. mid()
4. Dayofmonth()

Options 1. 1

2. 2

3. 3

4. 4

Q.41

Which network device is used to connect different devices through wires?

(A) Ethernet Hub

(B) Modem

(C) Switch

(D) Repeater

Hub / Switch

Choose the ***correct*** answer from the options given below:

1. (A) and (C) only
2. (A) and (B) only
3. (A), (B), (C) and (D)
4. (A), (B) and (C) only

1

Options 1. 1

2. 2
3. 3
4. 4

Q.42

A/ An _____ is an exceptionally large or small value, in comparison to other values of the data.

1. Mode
2. Mean value
3. Extreme
4. Outlier

4

Q.43

Match **List-I** with **List-II**

Consider a sorted list comprising 15 elements:

numList = [2, 3, 5, 7, 10, 11, 12, 17, 19, 23, 29, 31, 37, 41, 43]

List-I	**List-II**
(A) Search for value 7 using linear search	(I) Comparison=1
(B) Search for value 17 using binary search	(II) Comparison=8
(C) Search for value 17 using linear search	(III) Comparison=2
(D) Search for value 7 using binary search	(IV) Comparison=4

Choose the **correct** answer from the options given below:

1. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
2. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (IV), (B) - (II), (C) - (I), (D) - (III)

BINARY SEARCH = SORTED

1 + 15 = 16 // 2 = 8

1

Q.44

Which of the following are DDL commands?

(A) ALTER TABLE

(B) DROP TABLE

(C) UPDATE TABLE

(D) CREATE TABLE

Choose the ***correct*** answer from the options given below:

1. (A), (B) and (D) only
2. (A), (B) and (C) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

Q.45

Match **List-I** with **List-II**

List-I	**List-II**
(A) SUBSTR()	(I) Returns month name of a date.
(B) MONTHNAME()	(II) Returns cardinality of a table.
(C) MOD()	(III) Extracts a portion of a string.
(D) COUNT(*)	(IV) Returns remainder value.

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)
3. (A) - (I), (B) - (IV), (C) - (II), (D) - (III)
4. (A) - (III), (B) - (I), (C) - (IV), (D) - (II)

4

Q.46

In the following list, bubble sort technique has been applied to sort a list of elements.

numList2 = [8, 7, 6, 5, 4]

Arrange the list after each pass in order :

8 , 7 , 6 , 5 , 4

(A) [7, 6, 5, 4, 8]

(B) [5, 4, 6, 7, 8]

(C) [8, 7, 6, 5, 4]

(D) [6, 5, 4, 7, 8]

8 , 7 , 6 ,5 ,4
7 , 6 , 5 , 4 ,8
6 , 5 , 4 , 7 ,8
5 , 4 , 6 , 7 ,8

Choose the **correct** answer from the options given below:

1. (C), (B), (A), (D)
2. (C), (A), (D), (B)
3. (C), (A), (B), (D)
4. (C), (B), (D), (A)

2

Q.47

Assume that the numList has seven elements [8, -4, 7, 17, 0, 2, 19]

If the list is not sorted and used as it is, then which among the following is the best suitable search technique to search any element?

1. Binary Search
2. Searching by Hashing
3. Linear Search
4. Bubble Search

3

Q.48

Arrange the given data models in a hierarchy from older to newer:

(A) Manual System

(B) Relational Data Model

(C) File System

(D) Database Management System

A , C , B , D

Choose the **correct** answer from the options given below:

1. (A), (C), (D), (B)
2. (A), (B), (C), (D)
3. (A), (B), (D), (C)
4. (A), (C), (B), (D)

4

Q.49

Fill the blanks with suitable combinations:

(Note: While browsing the web, we move from one web page to another by accessing links between them. In order to go back to the last visited web page, we may use the back button on the browser.)

Let us say we accessed a web page P1 from where we moved to web page P2 followed by browsing of web page P3.

Currently, we are on web page ____ and want to revisit web page P1. We may go to a previously visited web page by using the ____ button of the browser. On clicking the ____ button ____, we are taken from web page P3 to web page P2, another click on back shows web page ____. In this case, the history of browsed pages is maintained as stack.

1. P1; Next; Next; twice; P3
2. P3; Back; Next; once; P1
3. P3; Next; Back; once; P2
4. P3; Back ; Back; once; P1

p3 back back once p1 4 4

Q.50

Find the range from the given data: (Height in cm)

[85, 90, 90, 100, 102, 110, 110, 110, 115]

1. 110 cm
2. 95 cm
3. 102 cm
4. 30 cm

range = 115 - 85= 30

4