

CUET 2025 308-Computer Science Question Paper

Time Allowed :3 Hours	Maximum Marks :100	Total questions :60
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General Instructions

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- i) The CUET (UG) 2025 will be conducted by the National Testing Agency (NTA) in Computer Based Test (CBT) mode.
- ii) All questions will be objective type (MCQs) with four options, out of which only one will be correct.
- iii) Each correct answer carries **+5 marks**, and **1 mark will be deducted** for every incorrect response. Unanswered questions will get **0 marks**.
- iv) The test will consist of three sections:
 - Section I: Languages
 - Section II: Domain Subjects
 - Section III: General Test
- v) Candidates must carry their Admit Card and a valid Photo ID proof to the examination center.
- vi) Rough work should be done only in the provided sheet/scribble pad, which must be returned after the test.
- vii) No electronic gadgets, mobile phones, or programmable calculators are permitted inside the examination hall.

Q1. Identify the relational algebra operation denoted by:

Course X Student;

where 'Course' and 'Student' are two relations and X is an operation.

- (A) Union
- (B) Set Difference
- (C) Cartesian Product
- (D) Intersection

Q2. Given the following relations:

TableA

Name	Hobbies
Anu	Dance
Anuj	Music

TableB

Name	Hobbies
Prannav	Reading
Anuj	Music

Find $\text{TableA} \cup \text{TableB}$.

1.

Name	Hobbies
Anu	Dance
Anuj	Music
Prannav	Reading

2.

Name	Hobbies
Anuj	Music
Prannav	Reading

3.

Name	Hobbies
Prannav	Reading

4.

Name	Hobbies
Anu	Dance
Anuj	Music
Prannav	Reading

Q3. Given two relations:

- **Employee** with structure as (ID, Name, Address, Phone, Deptno)
- **Department** with structure as (Deptno, Dname)

_____ is used to represent the relationship between two relations Employee and Department.

1. Primary key
2. Alternate key
3. Foreign key
4. Candidate key

Q4. A _____ value is specified for the column, if no value is provided.

1. unique
2. null
3. default
4. primary

Q5. Given table 'StudAtt' with structure as (Rno, Attdate, Attendance). Identify the suitable command to add a primary key to the table after creation.

Note: We want to make both **Rno** and **Attdate** columns as primary key.

1. ALTER TABLE StudAtt ADD PRIMARY KEY(Rno, Attdate);
 2. CREATE TABLE StudAtt ADD PRIMARY KEY(Rno);
 3. ALTER TABLE StudAtt ADD PRIMARY KEY;
 4. ALTER TABLE StudAtt ADD PRIMARY KEY(Rno) AND PRIMARY KEY(Attdate);
-

Q6. The SELECT command when combined with DISTINCT clause is used to:

1. returns records without repetition
 2. returns records with repetition
 3. returns all records with conditions
 4. returns all records without checking
-

Q7. _____ is used to search for a specific pattern in a column.

1. Between operator
 2. In operator
 3. Like operator
 4. Null operator
-

Q8. Give the output of the query:

```
SELECT MONTH ("2010-03-05") ;
```

1. 3
 2. 5
 3. MARCH
 4. MAY
-

Q9. Match List-I with List-II:

List-I (Aggregate function)	List-II (Description)
(A) count(marks)	(I) Count all rows
(B) count(*)	(II) Finding average of non null values of marks
(C) avg(marks)	(III) Count all non null values of marks column
(D) sum(marks)	(IV) Finding sum of all marks

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

Q10. Given Relation: STUDENT

SNO	SNAME	MARKS
1	Amit	20
2	Karuna	40
3	Kavita	NULL
4	Anuj	30

Find the value of:

SELECT AVG (MARKS) FROM STUDENT;

1. 30
2. 22.5
3. 90
4. 23

Q11. _____ operation is used to get the common tuples from two relations.

1. Union

2. Intersect
 3. Set Difference
 4. Cartesian product
-

Q12. Identify the correct IP address from the options given:

1. FC:F8:AE:CE:7B:16
 2. 192.168.256.178
 3. 192.168.0.178
 4. 192.168.0.-1
-

Q13. Arrange the following Python code segments in order with respect to exception handling:

(A) except ZeroDivisionError:

```
print("Zero denominator not allowed")
```

(B) finally:

```
print("Over and Out")
```

(C) try:

```
n = 50
d = int(input("enter denominator"))
q = n/d
print("division performed")
```

(D) else:

```
print("Result=", q)
```

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

Q14. _____ is the process of transforming data or an object in memory (RAM) to a stream of bytes called byte streams.

1. read()
 2. write()
 3. Pickling
 4. De-serialization
-

Q15. Identify the correct code to read data from the file `notes.dat` in a binary file:

1.

```
import pickle
f1=open("notes.dat","r")
data=pickle.load(f1)
print(data)
f1.close()
```

2.

```
import pickle
f1=open("notes.dat","rb")
data=f1.load()
print(data)
f1.close()
```

3.

```
import pickle
f1=open("notes.dat","rb")
data=pickle.load(f1)
print(data)
f1.close()
```

4.

```
import pickle
f1=open("notes.dat","rb")
data=f1.read()
print(data)
f1.close()
```

Q16. Identify the correct python statement to open a text file "data.txt" in both read and write mode.

1. file.open("data.txt")
2. file.open("data.txt","r+")
3. file.open("data.txt","rw")
4. file.open("data.txt","rw+")

Q17. Identify the type of expression where operators are placed before the corresponding operands:

1. Polish expression
2. Infix expression
3. Postfix expression
4. Reverse polish expression

Q18. Evaluate the postfix expression:

24 5 7 * 5 / +

1. 29
2. 30
3. 31
4. 0

Q19. STACK follows ----- principle, where insertion and deletion is from ----- end/ends only.

1. LIFO, two
2. FIFO, two
3. FIFO, top
4. LIFO, one

Q20. Given a scenario: Suppose there is a web-server hosting a website to declare results. This server can handle a maximum of 100 concurrent requests to view results. So, as to serve thousands of user requests, a ----- would be the most appropriate data structure to use.

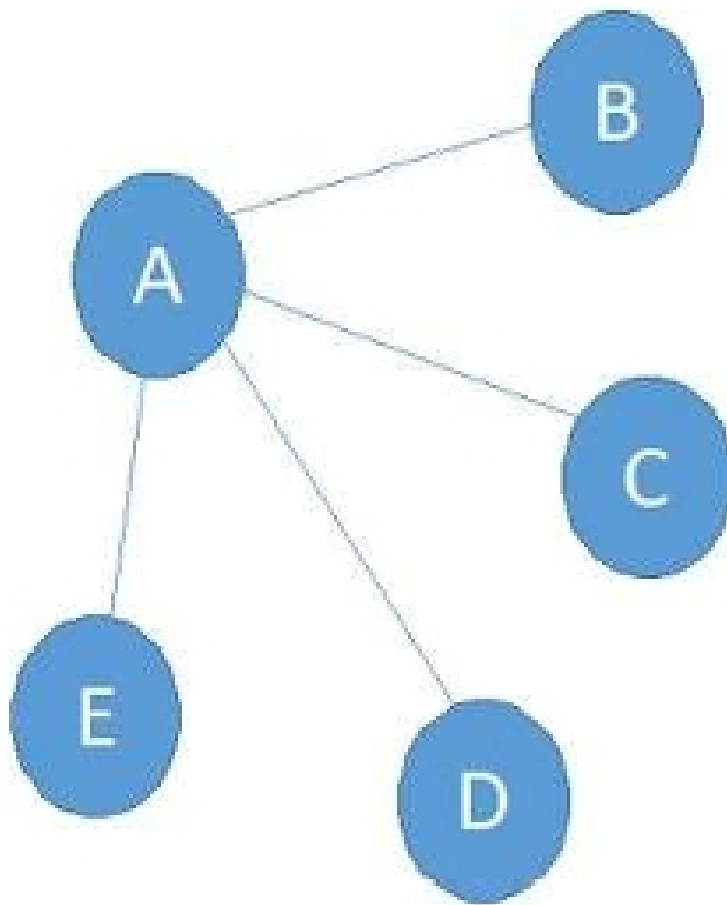
1. Stack
2. Queue
3. List
4. Dictionary

Q21. To perform enqueue and dequeue efficiently on a queue, which of the following operations are required?

- A) isEmpty
- B) peek
- C) isFull
- D) update

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

Q22. Identify the correct place where we have to use repeaters.



Distance	Length (m)
A to B	20
A to C	50
A to D	110
A to E	70

1. Between A to B
2. Between A to C
3. Between A to D
4. Between A to E

Q23. In MAC address, Organisational Unique Identifier (OUI) consists of

1. 32 bits
2. 48 bits
3. 24 bits
4. 64 bits

Q24. Given a list `numList` of n elements and key value K , arrange the following steps for finding the position of the key K in the `numList` using binary search algorithm i.e.

`BinarySearch(numList, key).`

- (A) Calculate $\text{mid} = (\text{first} + \text{last}) // 2$
- (B) SET $\text{first} = 0, \text{last} = n - 1$
- (C) PRINT "Search unsuccessful"
- (D) WHILE $\text{first} \neq \text{last}$ REPEAT
 - IF `numList[mid] = key`
 - PRINT "Element found at position", $\text{mid} + 1$
 - STOP
 - ELSE
 - IF `numList[mid] < key`, THEN $\text{last} = \text{mid} - 1$
 - ELSE $\text{first} = \text{mid} + 1$

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

Q25. In binary search, after every pass of the algorithm, the search area:

1. gets doubled
2. gets reduced by half
3. remains same
4. gets reduced by one third

Q26. For binary search, the list is in ascending order and the key is present in the list. If the middle element is less than the key, it means:

1. The key is in the first half.
2. The key is in the second half.
3. The key is not in the list.
4. The key is the middle element.

Q27. Arrange the following in order related to bubble sort for a list of elements:

Initial list:

4, -9, 12, 30, 2, 6

(A)

4, -9, 12, 30, 2, 6

(B)

-9, 4, 12, 30, 2, 6

(C)

-9, 4, 12, 2, 30, 6

(D)

-9, 4, 12, 2, 6, 30

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

Q28. The amount of time an algorithm takes to process a given data can be called its:

1. Process time

2. Time period
 3. Time complexity
 4. Time bound
-

Q29. Identify the **incorrect** statement in the context of measures of variability:

1. Range is the difference between maximum and minimum values of the data.
 2. Mean is the average of numeric values of an attribute.
 3. Standard deviation refers to differences within the set of data of a variable.
 4. Measures of variability is also known as measures of dispersion.
-

Q30. Identify type of data being collected/generated in the scenario of recording a video:

1. Structured Data
 2. Ambiguous data
 3. Unstructured data
 4. Formal Data
-

Q31. Given data: Weight of 20 students in kgs = [35, 35, 40, 40, 40, 50, 50, 50, 50, 50, 60, 65, 65, 70, 70, 72, 75, 75, 78, 78]

Find the mode.

1. 50
 2. 55
 3. 57.4
 4. 57
-

Q32. Match **List-I** with **List-II**.

List-I	List-II
(A) Primary key	(I) Total number of attributes in a table.
(B) Degree	(II) Attribute used to relate two tables.
(C) Foreign key	(III) Attribute used to uniquely identify a tuple.
(D) Constraint	(IV) A restriction on the type of data that can be inserted in a column.

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

Q33. In SQL table, the set of values which a column can take in each row is called _____.

1. Tuple
2. Attribute
3. Domain
4. Relation

Q34. Which of the following is synonym for Meta-data?

1. Data Dictionary
2. Database Instance
3. Database Schema
4. Data Constraint

Q35. Single row functions are also known as ____ functions.

1. Multi row
2. Group
3. Mathematical

4. Scalar

Q36. Ms Ritika wants to delete the table 'sports' permanently. Help her in selecting the correct SQL command from the following.

1. DELETE FROM SPORTS;
 2. DROP SPORTS;
 3. DROP TABLE SPORTS;
 4. DELETE * FROM SPORTS;
-

Q37. Which of the following are text functions?

- (A) MID()
- (B) INSTR()
- (C) SUBSTR()
- (D) LENGTH()

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

Q38. Match **List-I** with **List-II**.

List-I	List-II
(A) ROUTER	(I) Network Topology
(B) ETHERNET CARD	(II) Network Device
(C) RING	(III) Network Type
(D) PAN	(IV) Network Interface Card

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

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

Q39. _____ is a language used to design web pages.

1. Web browser
 2. HTTP
 3. HTML
 4. WWW
-

Q40. Match **List-I** with **List-II**.

List-I	List-II
(A) Modem (B) RJ45 (C) Network interface unit (D) ISP	(I) An eight pin connector used with Ethernet cables for networking. (II) Modulator-Demodulator (III) An organization that provides services for accessing the internet. (IV) Ethernet card

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

Q41. Bandwidth of a channel is:

1. The range of frequencies available for transmission of data through that channel.
2. The path of message travels between source and destination.
3. The set of rules on the Internet.
4. The data or information that needs to be exchanged.

Q42. Data Transfer Rate 1 Gbps is equal to:

- (A) 1024 Mbps
- (B) 1024 Kbps
- (C) 2^{30} bps
- (D) 2^{20} bps

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

Q43. Identify the wired transmission media for the following: “They are less expensive and commonly used in telephone lines and LANs. These cables are of two types: Unshielded and shielded.”

- 1. Optical Fibre
- 2. Coaxial Cable
- 3. Twisted pair cable
- 4. Microwaves

Q44. The term Cookie is defined as:

- 1. A computer cookie is a small file or data packet which is stored by a website on the server's computer.
 - 2. A cookie is edited only by the website that created it, the client's computer acts as a host to store the cookie.
 - 3. Cookies are used by the user to store data on the computer.
 - 4. A cookie is a security system to protect your data.
-

Q45. Identify the concept behind the below-given scenario: “If an attacker limits or stops an authorized user to access a service, device or any such resource by overloading that resource with illegitimate requests.”

1. Snooping
 2. Eavesdropping
 3. Denial of Service
 4. Plagiarism
-

Q46. The HTTPS based websites require:

1. Search Engine Optimization
 2. Digital authenticity
 3. WWW Certificate
 4. SSL Digital Certificate
-

Q47. State the output of the following query:

SELECT LENGTH(MID('INFORMATICS PRACTICES',5,-5));

1. NO OUTPUT
 2. 5
 3. 0
 4. ERROR
-

Q48. Match **List-I** with **List-II**:

List-I	List-II
(A) group by	(I) math function
(B) mid()	(II) aggregate function
(C) count()	(III) having
(D) mod()	(IV) text function

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

Q49. What will be the format of the output of the NOW() function?

1. HH:MM:SS
2. YYYY-MM-DD HH:MM:SS
3. HH:MM:SS YYYY-MM-DD
4. YYYY-DD-MM HH:MM:SS

Q50. State the output of the following query:

SELECT ROUND(9873.567,-2);

1. 9900
2. 9873
3. 9800
4. 9873.5

Q51. Given the following table:

ENO	SALARY
A101	4000
B109	NULL
C508	6000
A305	2000

State the output of the following query:

SELECT COUNT (SALARY) FROM EMPLOYEE;

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

Q52. Match List-I with List-II.

List-I	List-II
(A) SUBSTR()	(II) To extract a substring from a string.
(B) TRIM()	(IV) To remove spaces from both sides of the string.
(C) INSTR()	(I) To find the position of a substring in a string.
(D) LEFT()	(III) To extract characters from the left side of the string.

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

Q53. Arrange the following statements to create a series from a dictionary.

- (A) Print the series
- (B) Import the pandas library
- (C) Create the series
- (D) Create a dictionary

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

Q54. Given the following DataFrame df:

PNO	NAME
111	ROHAN
222	MEETA
333	SEEMA
444	SHALU
555	POONAM

Select the correct commands from the following to display the last five rows:

- (A) `print(df.tail(-5))`
- (B) `print(df.head(-5))`
- (C) `print(df.tail())`
- (D) `print(df.tail(5))`

Q55. Given the following series 'ser1':

Index	Value
0	69
1	80
2	20
3	50
4	100
5	70

State the output of the following command: `print(ser1 >= 70)`

1.

1	80
4	100
5	70

2.	0	F
	1	T
	2	F
	3	F
	4	T
	5	T
3.	1	T
	4	T
	5	T
4.	1	80
	4	100

Q56. Which of the following are the correct commands to delete a column from the DataFrame `df1`?

- (A) `df1 = df1.drop(column_name, axis=1)`
- (B) `df1.drop(column_name, axis=columns, inplace=True)`
- (C) `df1.drop(column_name, axis='columns', inplace=True)`
- (D) `df1.drop(column_name, axis=1, inplace=True)`

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

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

Q57. Which of the following is the correct command to display the top 2 records of Series `tail`?

- 1. `print(s1.head(2))`

2. `print (tail.head())`
3. `print (tail.head(0))`
4. `print (tail.head(2))`

Q58. While transferring the data from a DataFrame to a CSV file, if we do not want the column names to be saved to the file on disk, the parameter to be used in `to_csv()` is

1. `header=False`
2. `index=False`
3. `header=True`
4. `index=True`

Q59. HTTP is

1. a set of rules for email communication.
2. a file transfer protocol.
3. a set of rules which is used to retrieve linked web pages across the web.
4. a set of rules used for secure transmission of data.

Q60. Put the following statistical measures in order starting from the simplest measure of data to the most complex one that describes data spread:

- (A) Mode,
- (B) Mean,
- (C) Median,
- (D) Range,
- (E) Standard Deviation

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

4. (C), (E), (B), (D), (A)

Q61. `Dataframe.quantile()` is used to get the quartiles. The second quantile is known as

1. mode
2. mean
3. standard deviation
4. median

Q62. Consider the given DataFrame 'df4':

NAME	PERIODIC	ENG	MATHS	SCIENCE
MEENA	1	40	60	80
REENA	2	60	30	10
TEENA	3	80	60	40
SHEENA	2	90	20	70

We want the following output:

NAME	MEENAREENATEENASHEENA
PERIODIC	8
ENG	270
MATHS	170
SCIENCE	200

1. `print(df4.sum(numeric_only=True))`
 2. `print(df4.sum(numeric_only=False))`
 3. `print(df4.sum())`
 4. `print(df4.count(numeric_only=True))`
-

Q63. The process of changing the structure of a DataFrame using function pivot() is known as

1. Transpose
2. Reindexing
3. Resetting
4. Reshaping

Q64. After establishing the connection to fetch the data from the table of a database in SQL into a DataFrame, which of the following function will be used?

- (A) pandas.read_sql_query()
- (B) pandas.read_sql_table()
- (C) pandas.read_sql_query_table()
- (D) pandas.read_sql()

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

Q65. _____ in matplotlib also known as correlation plot, because they show how two variables are related.

1. Bar graph
2. Pie chart
3. Box plot
4. Scatter plot

Q66. Given the following statement: `import matplotlib.pyplot as plt 'plt'`
in the above statement is name.

- (A) key
 - (B) alias
 - (C) variable
 - (D) function
-

Q67. How can you save a matplotlib plot as a file?

- 1. `plt.export()`
 - 2. `plt.save()`
 - 3. `plt.savefig()`
 - 4. `plt.store()`
-

Q68. Arrange the following in order in the context of exception handling:

- (A) Program Termination
- (B) Exception is raised
- (C) Error occurs in a program
- (D) Catching an exception

Choose the correct answer from the options given below:

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

Q69. The plot function of pandas matplotlib uses 'kind' argument which can accept a string indicating the type of graph to be plotted. Which of the following are valid plots?

- (A) Area
 - (B) Box
 - (C) Scatter
 - (D) Line
-

—

Q70. Given the following code for histogram:

```
df.plot(kind='hist', edgecolor="Green", linewidth=2, linestyle='-', fill=False)
```

What is the role of `fill=False`?

1. Each hist will be filled with green color.
 2. Each hist will be empty.
 3. Each hist will be filled with ' '.
 4. The edge color of each hist will be black.
-

Q71. Matplotlib library can be installed using pip command. Identify the correct syntax from the following options.

1. `pip install matplotlib.pyplot`
 2. `pip install matplotlib.pyplot`
 3. `pip install matplotlib.pyplot as plt`
 4. `pip install matplotlib`
-

—

Q72. Dynamic web pages can be created using various languages, like

- (A) JavaScript
- (B) PHP
- (C) Python
- (D) Ruby

Q73. Match List-I with List-II:

List-I List-II

- (A) STAR TOPOLOGY (I) Each communicating device is connected to a central node.
(B) LAN (II) Networking device.
(C) HUB (III) Protocol.
(D) VoIP (IV) Type of network.

Choose the correct answer from the options given below:

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

Q74. Arrange the following in sequence of execution:

- (A) HTTP Request
(B) Calls an application in response to the HTTP request
(C) Program executes and produces HTML output
(D) HTTP Response

Q75. Match List-I with List-II:

List-I List-II

- (A) Static web page (I) A web page whose content keeps changing.
(B) Home page (II) A web page whose content is fixed.
(C) Dynamic web page (III) Delivers the contents to web browser.
(D) Web server (IV) First page of website.

Choose the correct answer from the options given below:

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

Q76. Which of the following is a networking device?

- (A) Gateway
- (B) Repeater
- (C) MAN
- (D) Modem

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

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Q77. _____ is the largest WAN that connects billions of computers, smartphones, and millions of LANs from different countries.

1. PAN
 2. WWW
 3. Ethernet
 4. Internet
-

—
Q78. The intellectual property right that is granted for inventions is _____.

1. Copyright
2. Patent

3. Trademark

4. Licensing

Q79. Violation of intellectual property right may happen due to:

(A) Copyright Infringement

(B) Patent

(C) Trademark Infringement

(D) Plagiarism

1. (A) and (C) only

2. (A), (B) and (C) only

3. (A), (B), (C) and (D)

4. (A), (C) and (D) only

Q80. Match List-I with List-II:

List-I List-II

(A) Cyber Appellate Tribunal (I) Punishes people causing pollution.

(B) Environmental Protection Act 1986 (II) Provides guidelines for proper handling and disposal of e-waste.

(C) Indian Information Technology Act 2000 (III) Resolves disputes arising from cyber crime.

(D) Central Pollution Control Board (IV) Provides guidelines on storage, processing and transmission of sensitive data.

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

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

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

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

Q81. _____ is a branch of science that deals with designing and arranging of workplaces.

1. Netiquette
2. Ergonomics
3. Leeching
4. Refurbishing

Q82. Sequence the steps to append data to an existing file and then read the entire file:

- (A) Open the file in a+ mode.
- (B) Use the read() method to output the contents.
- (C) Use the write() or writelines() method to append data.
- (D) Seek to the beginning of the file.

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

Q83. Sequence the given process for checking whether a string is a palindrome or not, using a deque:

- (A) Load the string into the deque.
- (B) Continuously remove characters from both ends.
- (C) Compare the characters.
- (D) Determine if the string is a palindrome based on the comparisons.

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

4. (C), (B), (D), (A)

Q84. Cable based broadband internet services are example of

1. LAN
2. MAN
3. WAN
4. PAN

Q85. is the trail of data we leave behind when we visit any website (or use any online application or portal) to fill-in data or perform any transaction.

1. Digital footprint
 2. Cyber crimes
 3. Cyber bullying
 4. Identity theft
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