

CUET UG 2023 Computer Science & Informative Practices Question Paper PDF (May 30, 2023) (Shift 2)

- What is the output of the following SQL Query `SELECT POWER (2,3);`
 (a) 9 (b) 8
 (c) 6 (d) 5
- Which gives the correct match in the following?
 (A) HTML : Hyper Text Machine Language
 (B) NIC : Network Interface Card
 (C) URL : Uniform Resource Locator
 (D) URI : Uniform Resource Internet
 (E) DNS : Domain Name Server
 Choose the correct answer from the options given below:
 (a) (A) and (B) Only
 (b) (B) and (C) Only
 (c) (A) and (E) Only
 (d) (D) and (E) Only
- A _____ is a complete program or may be a third party software to extend and modify the functionality of the browser. It is installed on host computer and used by the browser and other applications.
 (a) plug - ins (b) Add - ons
 (c) Cookies (d) Software
- Read the code given below and answer the question

```
Fileobj = open (Myfile.txt", 'w')
lines = ["Python Programming\n", "is a simple\n", "Programming"]
Fileobj.writelines(lines)
print (Fileobj.read(6))
Fileobj.close ()
```

 What will be output of the above code?
 (a) Python (b) Progra
 (c) amming (d) Python Programming
- Which of the following information is maintained by a DNS server?
 (A) Hardware address (MAC)
 (B) Application Name
 (C) Session information
 (D) Domain Names
 (E) IP address
 Choose the **correct** answer from the options given below:
 (a) (A) and (B) Only (b) (B) and (C) Only
 (c) (D) and (E) Only (d) (A) and (E) Only
- Which of the following is not a limitation of File System?
 (a) Data Inconsistency
 (b) Data Redundancy
 (c) Data Isolation
 (d) Data Independence
- Consider the following statements relating to Python programming:
Assertion (A) : There is no need to open a file for writing something to it.
Reason (B) : write() function is used for writing a single string.
 Choose the correct answer from the options given below:
 (a) Both (A) and (B) are false
 (b) Both (A) and (B) are true
 (c) (A) is true and (B) is false
 (d) (A) is false and (B) is true
- State the output of following:
`Select left (mid ('Informatics Practices', 3,8),4);`
 (a) Inform (b) Info
 (c) form (d) matics
- Which of the following clause is applicable to both Aggregate functions and single row function.
 (A) SELECT (B) WHERE
 (C) ORDER BY (D) DATE
 Choose the correct answer from the options given below:
 (a) (A) Only (b) (B) and (C) Only
 (c) (C) and (D) Only (d) (A) and (D) Only
- Which of the following exception is raised when the result of a calculation exceeds the maximum limit for numeric data type?
 (a) Index Error (b) EOFError
 (c) Over Flow Error (d) Under Flow Error
- Consider the following statements relating to network device switch:
(A) : It sends signals to only selected devices.
(B) : It does not forward the signals which are noisy or corrupt.
 Choose the correct answer from the options given below:
 (a) Both (A) and (B) are false
 (b) Both (A) and (B) are true
 (c) (A) is true and (B) is false
 (d) (A) is false and (B) is true
- Read the code given below and answer the question.

```
new_file = open ("My file.txt", 'w')
new_file.write ("Programming")
new_file.close()
```

 If the MyFile.txt contains "Python" before execution, what will be the contents of My File.txt after execution of this code?
 (a) Python Programming
 (b) Programming
 (c) Programming Python
 (d) Python

13. _____ should be added in select query to display records without repetition.

- (a) Primary key (b) Unique
(c) Distinct (d) Alternate key

14. Match List I with List II

List I

List II

- | | |
|-----------------------|---|
| (A) Cartesian product | (I) To combine the selected rows in two tables at a time |
| (B) Union | (II) To get tuples which are in first table but not in the second table |
| (C) Minus | (III) To get common tuples from 2 tables |
| (D) Intersection | (IV) To get all the rows from 2 tables regardless of whether they have same values or not |

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

- (a) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
(b) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
(c) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
(d) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

15. Restriction on the entry into a column while inserting data in a table is known as:

- (a) Primary key (b) Domain
(c) Data Redundancy (d) Constraint

16. Match List I with List II

List I

List II

- | | |
|------------------------|---|
| (A) VARIABILITY | (I) Difference between minimum and maximum value of data |
| (B) RANGE | (II) Difference within the group or set of data of a variable |
| (C) STANDARD DEVIATION | (III) Value that appears most number of times in a given data of any variable |
| (D) MODE | (IV) The spread or variation of values around the mean |

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

- (a) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(b) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
(c) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
(d) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

17. Match List-I with List-II

List - I

List - II

- | | |
|-------------------|---|
| (A) Candidate key | (I) The attribute chosen by the database designer to uniquely identify the tuples in a relation |
| (B) Primary key | (II) More than one attribution taken together as primary key to uniquely distinguish the tuples |
| (C) Composite key | (III) Used to relate two tables or relations |
| (D) Foreign key | (IV) One or more attributes that can be used to uniquely identify the tuples in the relation |

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

- (a) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
(b) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
(c) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)
(d) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

18. Evaluate the postfix expression $3\ 5\ 2\ * \ 2 / +$ using stack method:

- (a) 11 (b) 13
(c) 8 (d) 5

19. Consider the following relation:

$$L = [6, -1, 3, 4, 0, 8]$$

What will be the position of the elements of the list after third pass of Bubble sort technique if the lists to be sorted in ascending order:

- (a) $[6, 3, -1, 3, 4, 0, 8]$ (b) $[-1, 3, 4, 6, 0, 8]$
(c) $[-1, 0, 3, 4, 6, 8]$ (d) $[6, -1, 3, 4, 0, 8]$

20. Match List I with List II

List I

List II

- | | |
|-------------------------------|-------------------------------|
| (A) Constant time algorithms | (I) Remainder method |
| (B) Linear time algorithms | (II) Does not have any loop |
| (C) Quadratic time algorithms | (III) Has a single loop |
| (D) Hashing | (IV) Has a loop within a loop |

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

- (a) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
(b) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(c) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
(d) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)

21. Which of the following is not an example of DBMS?

- (a) MySQL (b) PostgreSQL
(c) MongoDB (d) MS Excel

22. Match List - I with List-II

List-I

List-II

- | | |
|------------------------------|-----------------|
| (A) Stack | (I) Bubble sort |
| (B) Queue | (II) LIFO |
| (C) Comparison based sorting | (III) Linear |
| (D) Searching | (IV) FIFO |

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

- (a) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
(b) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
(c) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(d) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

23. A searching technique which is also called sequential search or serial search?

- (a) Binary (b) Search by hashing
(c) Non-Linear search (d) Linear search

24. _____ refer to structured or unstructured facts that can be processed to generate meaningful _____

What will be the right words for blank spaces respectively?

- (a) Data, Data (b) Data, Information
(c) Information, Data (d) Information, Information

25. Which of the following is not the application of internet?
 (a) Video conferencing
 (b) Sending message using Gmail
 (c) Chatting using WhatsApp
 (d) Talking using telephone
26. When we send print commands from multiple files from the same computer or from different computers using a shared printer, then _____ is the most appropriate data structure to handle the situation.
 (a) Stack (b) Array
 (c) Link list (d) Queue
27. Match List-I with List-II
- | List-I | List-II |
|---------|---|
| (A) PAN | (I) Internet |
| (B) LAN | (II) A mobile phone connected to the laptop using USB |
| (C) MAN | (III) Cable based broadband internet services |
| (D) WAN | (IV) Connecting computers in a computer laboratory |
- Choose the **correct** answer from the options given below:
 (a) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
 (b) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
 (c) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
 (d) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)
28. Match List I with List II
- | List I | List II |
|--|-------------------|
| (A) Number of Tuples in a relation | (I) Degree |
| (B) Number of attributes in a relation | (II) Attributes |
| (C) Columns of a relation | (III) Cardinality |
| (D) Each row of data in a relation | (IV) Tuple |
- Choose the **correct** answer from the options given below:
 (a) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
 (b) (A)-(III), (B)-(I), (C)-(II), (D)-(IV)
 (c) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
 (d) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
29. If every item of the list maps to a unique index in a hash table, then hash function is called?
 (a) Modules hash function
 (b) Perfect hash function
 (c) Collision resolution
 (d) Mid square has function
30. The function 'opPop' given below, performs _____
- ```
def opPop (glassStack):
 if isempty (glassStack):
 print ('underflow'):
 return None
 else:
 return (glassStack.pop())
```
- (a) Deletion of the top most element from the stack  
 (b) Insertion of the top most element from the stack  
 (c) Deletion of the bottom most element from the stack  
 (d) Insertion of the bottom most element from the stack
31. Which of the following searching techniques always search key in a one comparison time?  
 (a) Linear search (b) Binary search  
 (c) Hashing (d) Collision search
32. IPV4 having \_\_\_\_\_ bits whereas IPV6 having \_\_\_\_\_ bits respectively.  
 (a) 32, 64 (b) 64, 128  
 (c) 32, 128 (d) 128, 32
33. An operation on Deque used to insert a new element at the front of the deque?  
 (a) INSERTREAR (b) INSERTFRONT  
 (c) PUSH (d) POP
34. Which of the following is not a method a measure central tendency?  
 (a) Mean (b) Range  
 (c) Median (d) Mode
35. Queue is an ordered \_\_\_\_\_ list of elements having different ends for adding and removing elements in it.  
 (a) Quadratic (b) Cubic  
 (c) Linear (d) Bi-quadratic
36. Consider the code given below and fill in the blanks ()  
 print ("Handling exception using try \_\_\_\_\_ except \_\_\_\_\_ else") try:  
 numerator = 50  
 denom = int(input("enter the denominator."))  
 quotient = ( ) #1  
 print ("Division performed successfully")  
 except \_\_\_\_\_ : #2  
 print ("Denominator as zero is not allowed")  
 except \_\_\_\_\_ : #3  
 print ("only integer should be enter")  
 \_\_\_\_\_ : #4  
 print ("the result", \_\_\_\_\_) #5  
 What will come in place of # 1?  
 (a) denom/numerator  
 (b) numerator/denom  
 (c) numerator\* denom/denom  
 (d) Numerator\* denom/numerator
37. What will come in place of # 4?  
 (a) finally (b) except  
 (c) else (d) try-else
38. What will come in place of # 5?  
 (a) denom (b) No output  
 (c) Numerator (d) quotient
39. What will come in place of # 3?  
 (a) Zero Division Error  
 (b) Value Error  
 (c) Overflow Error  
 (d) Name Error
40. What will come in place of # 2?  
 (a) Zero Division Error  
 (b) Value Error  
 (c) Syntax Error  
 (d) Overflow Error



41. Consider the following CUSTOMER database:

| CustId | CustName      | CustAdd                | Phone      | Email                |
|--------|---------------|------------------------|------------|----------------------|
| C0001  | Amit Saha     | L-10, Pitampura        | 4564587852 | amistsahs2@gmail.com |
| C0002  | Rehnuma       | J-12, SAKET            | 5527688761 | rehnuma@hotmail.com  |
| C0003  | Charvi Nayyar | 10/9, FF, Rohini       | 6811635425 | charvi123@yahoo.com  |
| C0004  | Gurpreet      | A-10/2, SF, Mayurvihar | 3511056125 | gur_singh@yahoo.com  |

On the basis of the above database answer the following question:

Display customer name in lower case and customer email in upper case from table CUSTOMER.

- SELECT UPPER (CustName), UPPER(Email) FROM CUSTOMER;
  - SELECT UPPER (CustName), LOWER(Email) FROM CUSTOMER;
  - SELECT LOWER (CustName), LOWER(Email) FROM CUSTOMER;
  - SELECT LOWER(CustName), UPPER(Email) FROM CUSTOMER;
42. On the basis of the above database answer the following question:  
Display the length of the email and part of the email id before the character '@'.  
Note - Do not print '@'
- SELECT LENGTH (Email), LEFT (Email, INSTR (Email, "@")-1) FROM CUSTOMER;
  - SELECT LENGTH (Email), LEFT (Email "@") FROM CUSTOMER;
  - SELECT LENGTH (Email), LEFT (INSTR (Email)) FROM CUSTOMER;
  - SELECT LENGTH (Email), LEFT (INSTR (Email), "@")-1) FROM CUSTOMER;
43. On the basis of the above database answer the following question:  
Display email after removing the domain name extension ".com" from Email of the CUSTOMER.
- SELECT MID ("com" from Email) FROM CUSTOMER;
  - SELECT CUT ("com" from Email) FROM CUSTOMER;
  - SELECT TRIM ("com" from Email) FROM CUSTOMER;
  - SELECT CUT ("com"from Email) FROM CUSTOMER;;
44. On the basis of the above database answer the following question:  
Display details of all the customers having yahoo emails only.
- SELECT\* FROM CUSTOMER WHERE Email (" % yahoo");
  - SELECT\* FROM CUSTOMER WHERE Email = " % yahoo";
  - SELECT\* FROM CUSTOMER WHERE Email LIKE " % yahoo";
  - SELECT\* FROM CUSTOMER WHERE Email is " % yahoo";
45. On the basis of the above database answer the following question:  
Let us assume that 4-digit area code is reflected in the mobile number starting from position number 3.  
For eg 1851 is area code of mobile no. 9818511338  
Write the SQL query to display the area code of the customer living in Rohini.
- SELECT RIGHT (Phone, 3, 4) FROM CUSTOMER WHERE CustAdd like "% Rohini%";
  - SELECT LTRIM (Phone, 3, 4) FROM CUSTOMER WHERE CustAdd like "% Rohini%";
  - SELECT MID (Phone, 3,4) FROM CUSTOMER WHERE CustAdd like "% Rohini%";
  - SELECT INSTR (Phone, 3,4) FROM CUSTOMER WHERE CustAdd like "% Rohini%";
46. What is mode of the following data?  
[3,5,7,7,1,7,3,9,2,7,2]
- 3
  - 7
  - 5
  - 2
47. Given below are two statements:  
**Statement (I)** : Bubble sort: It sorts a given list of elements and swapping them if they are unordered. In algorithm every iteration through each element of a list is called pass.  
**Statement (II)** : In Bubble sort for a list of n elements, the bubble sort make a total of (n-2) passes to sort the list.
- Both **Statement I** and **Statement II** are correct
  - Both **Statement I** and **Statement II** are incorrect
  - Statement I** is correct but **Statement II** is incorrect
  - Statement I** is incorrect but **Statement II** is incorrect
48. When we try to add on element into the stack which is already full. This exception is called as:
- Underflow
  - Overflow
  - Full
  - Empty

49. Match List-I with List-II

**List-I****List-II**

- |              |                                                                  |
|--------------|------------------------------------------------------------------|
| (A) HUB      | (I) Filters networks traffic while connecting multiple computers |
| (B) Repeater | (II) Used to connect multiple devices to/form a network          |
| (C) Switch   | (III) Receive the data analyse it and transmit to other network  |
| (D) Router   | (IV) Receive a weak signal and regenerates it                    |

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

- (a) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)  
 (b) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)  
 (c) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)  
 (d) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
50. Which of the following statement is true for linear search?
- (a) It is useful for large list  
 (b) It is useful to search an item in a small unsorted list  
 (c) Linear search divide the list from middle  
 (d) Hash function require to search an element in the list

Prepp  
Your Personal Exam Guide