



# SRI RAMAJAYAM GLOBAL SENIOR SECONDARY OBSE SCHOOL

## FULL PORTIONS REVISION EXAM - 2

STD: XII

TIME: 3.00 Hours

SUBJECT: COMPUTER SCIENCE (083)

TOTAL MARKS: 70

### General Instructions:

1. This question paper contains two parts A and B. Each part is compulsory.
2. Both Part A and Part B have choices.
3. Part-A has 2 sections:
  - a. Section – I is short answer questions, to be answered in one word or one line.
  - b. Section – II has two case study questions. Each case study has 4 case-based subparts.  
An examinee is to attempt any 4 out of the 5 subparts.
4. Part - B is the Descriptive Paper.
5. Part- B has three sections
  - a. Section-I is short answer questions of 2 marks each in which two questions have internal options.
  - b. Section-II is long answer questions of 3 marks each in which two questions have internal options.
  - c. Section-III is very long answer questions of 5 marks each in which one question has an internal option.
6. All programming questions are to be answered using Python Language only

### Part-A (Section-I) Attempt any 15 Questions

1. Which of the following is incorrect?
  - a. sys.platform
  - b. sys.readline
  - c. sys.path
  - d. sys.argv

2. Why do we define a function?

3. How will you open a new binary file btext.txt in write and read mode?

4. Which of the following is an invalid statement?

a. a, b, c = 1000, 2000, 3000

b. a = b = c = 1,000,000

c. a b c = 1000 2000 3000

d. abc = 1,000,000

5. To open a file c:\ss.txt for appending data, we use

a. file = open("c:\ss.txt", "a")

b. file = open("c:\ss.txt", "rw")

c. file = open(r"c:\ss.txt", "a")

d. file = open(file = "c:\ss.txt", "w")

e. file = open(file = "c:\ss.txt", "w")

f. file = open("c:\ res.txt")

a. c, d

b. b, d

c. a, c

d. a, d

6. What is the Python search path?

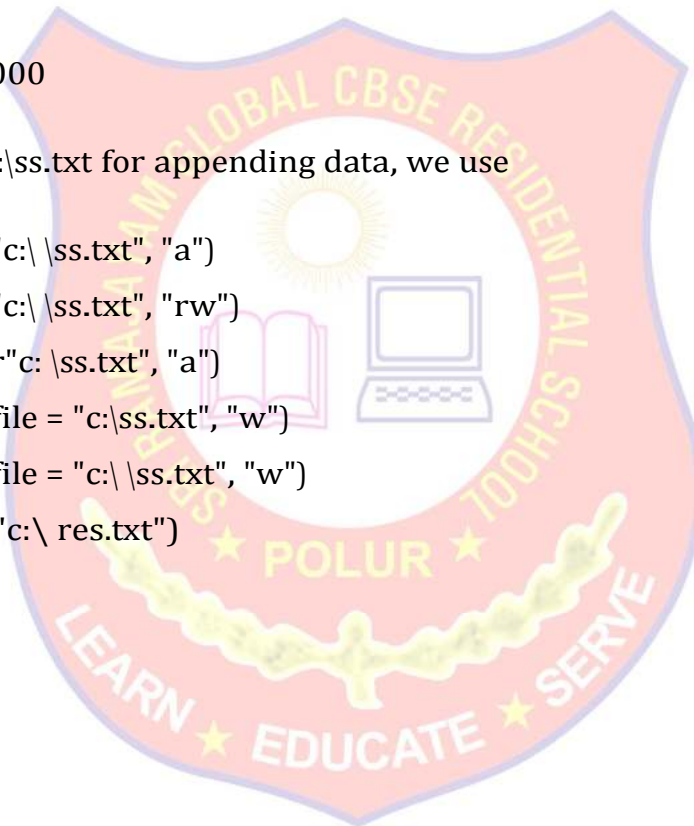
7. What will the following query do?

```
import mysql.connector
```

```
db = mysql.connector.connect(.. )
```

```
cursor = db.cursor( )
```

```
db.execute("SELECT * FROM staff WHERE person_id in {}".format((1,3,4)))
```



db.commit( )

db.close( )

8. What will be the result of following statement with following hierarchical structure of package Pkt1

i. \_int\_.py

ii. module1

iii. module2

iv. module3

module1 has functions - hello ( ), printme ( )

module2 has functions - countme( ), printit ( )

module3 has functions - this( ), that ( )

```
import Pkt1
```

```
module1.hello ( )
```

give reasons for your answers.

9. What is the difference between a list and a tuple?

10. What is an argument?

11. Can you suggest a real-life application for input/output restricted queues?

12. What do you understand by the terms Candidate Key and Cardinality of relation in the relational database

13. What is overflow situation?

14. A(n)\_\_\_\_\_in a table represents a logical relationship among a set of values.

a. Entry

b. Key

c. Attribute

d. Tuple

15. Expand the following:

- i. VoIP
- ii. SMTP

16. Which is the subset of SQL commands used to manipulate database structures, including tables?

- a. None of these
- b. Both Data Definition Language (DDL) and Data Manipulation Language (DML)
- c. Data Definition Language (DDL)
- d. Data Manipulation Language (DML)

17. Differentiate between fetchone() and fetchall() methods.

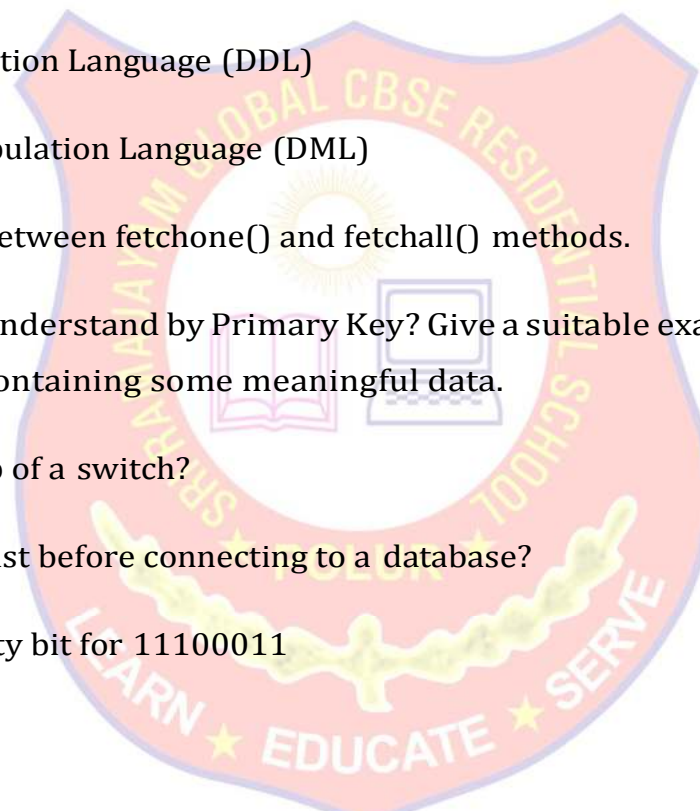
18. What do you understand by Primary Key? Give a suitable example of Primary Key from a table containing some meaningful data.

19. What is the job of a switch?

20. Write a checklist before connecting to a database?

21. Find ODD parity bit for 11100011

- a. 1
- b. 2
- c. none of these
- d. 0



## Section-II (Case study based Questions)

22. Consider the following tables GAMES and PLAYER and answer (b) and (c) parts of this question:

**Table: GAMES**

GCode	Game Name	Type	Number	Prize Money	Schedule Date
101	Carom Board	Indoor	2	5000	23-Jan-2004
102	Badminton	Outdoor	2	12000	12-Dec-2003
103	Table Tennis	Indoor	4	8000	14-Feb-2004
105	Chess	Indoor	2	9000	01-Jan-2004
108	Lawn Tennis	Outdoor	4	25000	19-Mar-2004

**Table: PLAYER**

PCode	Name	GCode
1	Nabi Ahmad	101
2	Ravi Sahai	108
3	Jatin	101
4	Nazneen	103

- What do you understand by primary key and candidate keys?
- Write the SQL command for the following statement:  
To display the name of all GAMES with their GCodes.
- Write the SQL command for the following statement:  
To display details of those GAMES which are having PrizeMoney more than 7000.
- Write the SQL command for the following statement:  
To display the content of the GAMES table in ascending order of Schedule Date.
- Write the SQL command for the following statement:  
To display sum of PrizeMoney for each type of GAMES.

23. A text file "Quotes.Txt" has the following data written in it :

Living a life you can be proud of Doing you

Spending your time with people and activities that are important to you

Standing up for things that are right even when it's hard

Becoming the best version of you

- i. Write a user-defined function to display the total number of words present in the file.
- ii. Which of the following function flushes the files implicitly?
  - a. flush()
  - b. close()
  - c. open()
  - d. fflush()
- iii. A \_\_\_\_\_ function reads first 15 characters of file.
- iv. You can create a file using \_\_\_\_\_ function in python.
- v. A \_\_\_\_\_ function requires a sequence of lines, lists, tuples etc. to write data into file

**Part – B (Section-I)**

24. Rewrite the following code in python after removing all syntax error(s).  
Underline each correction done in the code.

```
30 = To
```

```
for K in range(0,To)
```

```
    IF k%4== 0:
```

```
        print (K * 4)
```

```
    Else:
```

```
        print (K + 3)
```

25. Write the expanded names for the following abbreviated terms used in Networking and Communications

- i. GPRS
- ii. WiFi
- iii. POP
- iv. SMTP

OR

What is E-mail? What are its advantages?

26. What do you mean by IP Address? How is it useful in Computer Security?
27. How can we import a module in Python?

OR

Find the error(s) in the following code and correct them:

```
def describe intelligent life form():
```

```
    height = raw_input ("Enter the height")
```

```
    rawinput ("Is it correct?")
```

```
    weight = raw_input ("Enter the weight")
```

```
    favourite-game = raw_input ("Enter favorite game")
```

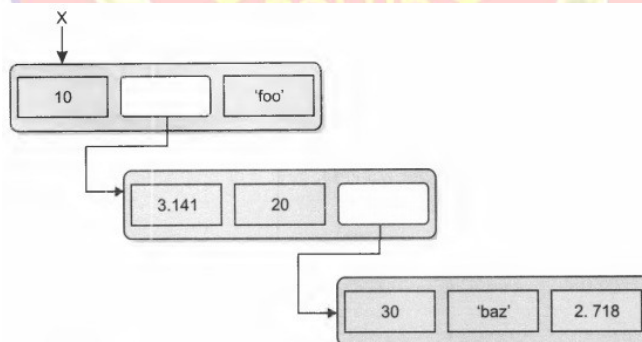
```
    print "your height", height, 'and weight', weight
```

```
    print "and your favourite game is", favourite-game, '!'
```

28. Consider the following nested list definition and then answer the questions based on this

```
x = [10, [3.141, 20, [30, 'baz', 2.718]], 'foo']
```

A schematic for this list is shown below:



- i. What is the expression that returns the 'z' in 'baz'?
- ii. What expression returns the list ['baz', 2.718]

29. Find and write the output of the following python

```
code: def Change(P, Q = 30):
```

```
    P = P + Q
```

```
    Q = P - Q
```

```
print(P,"#",
Q) return (P)
R = 150
S = 100
R = Change(R,S)
print(R, "#",S)
S = Change(S)
```

30. In a table **Apply**, there is a column namely **Experience** that can store only one of these values: 'Fresher', 'Private-sector-experience', 'Public-sector-experience', 'Govt.-sector experience'. You want to sort the data of table based on column **experience** as per this order: 'Govt-sector-experience', 'Public-sector-experience', 'Private-sector-experience', 'Fresher'. Write an SQL query to achieve this.

31. Consider a table structure as follows:

```
Employee
Emp_Id Empname
Dept
Age.
```

Write Python code to create the above table and then create an index and Emp\_Id.

32. What are different types of SQL functions?

33. Predict the output of the following code snippets?

```
i. arr = [1, 2, 3, 4, 5, 6]
for i in range(1, 6):
    arr[i - 1] = arr[i]
for i in range(0, 6):
    print(arr[i], end = " ")
```

```
ii. Numbers = [9, 18, 27, 36]
for Num in Numbers :
    for N in range(1, Num%8) :
        print(N, "#", end = " ")
    print()
```



## Section- II

34. Write a function CountYouMe() in Python which reads the contents of a text file Notes.txt and counts the words You and Me (not case sensitive).
35. Write a function called removeFirst that accepts a list as a parameter. It should remove the value at index 0 from the list.

Note that it should not return anything (returns None). Note that this function must actually modify the list passed in, and not just create a second list when the first item is removed. You may assume the list you are given will have at least one element.

OR

Write the term suitable for following descriptions:

- i. A name inside the parentheses of a function header that can receive value.
  - ii. An argument passed to a specific parameter using the parameter name.
  - iii. A value passed to a function parameter.
  - iv. A value assigned to a parameter name in the function header.
  - v. A value assigned to a parameter name in the function call.
  - vi. A name defined outside all function definitions.
  - vii. A variable created inside a function body.
36. Why do we need packages in Python?
  37. What is the utility of:
    - i. default arguments
    - ii. keyword arguments

### Section-III

38. Discuss how IPv4 is different from IPv6.
39. Consider the following table STORE. Write SQL commands for the following statements.

Table: **STORE**

ItemNo	Item	Scode	Qty	Rate	LastBuy
2005	Sharpener Classic	23	60	8	31-Jun-09
2003	Ball Pen 0.25	22	50	25	01-Feb-10
2002	Gel Pen Premium	21	150	12	24-Feb-10
2006	Gel Pen Classic	21	250	20	11-Mar-09
2001	Eraser Small	22	220	6	19-Jan-09
2004	Eraser Big	22	110	8	02-Dec-09
2009	Ball Pen 0.5	21	180	18	03-Nov-09

- i. To display details of all the items in the Store table in ascending order of LastBuy.
  - ii. To display ItemNo and Item name of those items from Store table whose Rate is more than 15 Rupees.
  - iii. To display the details of those items whose Suppliers code (Scode) is 22 or Quantity in Store (Qty) is more than 110 from the table Store.
  - iv. To display the Minimum Rate of items for each Supplier individually as per Scode from the table store.
40. Write a program that depends upon the user's choice, either pushes or pops an element in a stack.

**OR**

Convert the expression (TRUE and FALSE) or not (FALSE or TRUE) to postfix expression. Show the contents of the stack at every step.