



**INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2023
COMPUTER SCIENCE- 083**



CLASS : XII
DATE: 12-09-2023

TIME ALLOTTED : 3 HRS.
MAXIMUM MARKS: 70

GENERAL INSTRUCTIONS:

- This question paper contains four sections, **Section A to D**
- All questions are compulsory.
- **Section A** has 10 questions carrying **1** mark each.
- **Section B** has 12 Very Short Answer type questions carrying **2** marks each.
- **Section C** has 7 Short Answer type questions carrying **3** marks each.
- **Section D** has 3 Long Answer type questions carrying **5** marks each.

SECTION-A

1. Find the invalid identifier(s) from the following: 1
a) 12PNR b) salary c) Emp&no d) true
2. Which of the following is a valid keyword in Python? 1
a) true b) Raise c) In d) return
3. What is the output of the following code? 1
def func(x = 4,y = 3):
 x = x*y + 2
 y = y*2 - x
 print(x, y)
func(y= 7,x=5)
a) 37 -23 b) 36 -22 c)37 23 d) 36 22
4. Sunil, a python programmer, is working on a project which requires to define a function with name Interest(). He defines it as: 1
def Interest(Principal, Rate=0.06,Time): #code
But this code is not working. Help Sunil to identify the error in the above function and with the solutions given below.

a) def Interest(Principal=2000, Rate=0.06,Time):
b) def Interest(Principal=5000, Rate, Time=00.6):
c) def Interest(Principal, Rate, Time=0.06):
d) Def Interest(Principal, Rate, Time=0.06):
5. What is the default return value for a function that does not return any value explicitly? 1
a) 0 b) None c) -1 d) Nothing

6. When will the else part of try-except-else be executed? 1
 a) always
 b) when an exception occurs
 c) when no exception occurs
 d) when an exception occurs in to except block

7. What is the full form of CSV file? 1
 a) Caps Separated Values
 b) Comma Separated Values
 c) Colon Separated Values
 d) Caps Separated Values

8. You are given the text file, “file1.txt” whose contents are: 1
 hello everyone
 today is Monday
 all the best for your exams

What will be the output of the following code?

```
myfile = open("file1.txt")
str = myfile.readline(6)
str = myfile.readline()
str = myfile.readline(8)
print(str)
myfile.close()
```

 a) today is b) hello c) hello ev d) hello everyone

Q.9 is ASSERTION (A) and REASONING(R) based questions.
 Mark the correct choice as
 a) Both (A) and (R)are true and (R) is the correct explanation for (A).
 b) Both (A) and (R)are true and (R) is not the correct explanation for (A).
 c) (A) is true but (R) is false
 d) (A) is false but (R) is true.

9. Assertion (A) : A stack is a LIFO structure. 1
 Reason (R) : Any new element pushed into stack always gets positioned at the index after the last
 existing element in the stack.

10. Fill in the blank: 1
 _____ clause is used with SELECT statement to display data in a sorted form with respect to a specified column.
 a) WHERE b) DISTINCT c) ORDER BY d) HAVING

SECTION-B

11. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables Start and End. 2
- ```
import random
VAL=[80,70,60,50,40,30,20,10]
Start = random.randint(1,3)
End = random.randint(Start,4)
for I in range(Start, End+1):
 print (VAL[I],end ="")
```
- (i) 40\*30\*20\*10\*    (ii) 70\*60\*50\*40\*30\*    (iii) 50\*40\*30\*    (iv) 60\*50\*40\*
12. What will be the output of the following code? 2
- ```
value = 50

def display(N):
    global value
    value = 25
    if N%7 == 0:
        value = value + N
    else:
        value = value - N
print(value, end="#")
display(20)
print(value)
```
13. What will be the output of the following code? 2
- ```
def Diff(N1,N2):
 if N1 > N2:
 return N1-N2
 else :
 return N2-N1
NUM = [10,23,14,54,32]
for CNT in range(4,0,-1) :
 A= NUM[CNT]
 B= NUM[CNT-1]
 print(Diff(A,B), '#', end= ' ')
```
14. Explain the raise statement in exception handling with an example. 2
15. Explain SyntaxError and ValueError built-in exceptions. 2
16. What is the difference between a text file and binary file? 2

17. Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 2

```
Def Create():
 f = open(Data.txt", 'w')
 for i in Range(4):
 name =input("Enter Name:")
 f.write(name)
 f.close
```

18. Suppose the content of the file "Rhymes.txt" is as follows: 2  
Jack & Jill  
Went up the hill  
What is the output of following code?  
F=open('Rhymes.txt', 'r')  
L=F.readlines()  
for i in L:  
 S = i.split()  
 print(len(S),end= '#')

19. Define Primary Key and Alternate Key. 2

20. Explain any two DDL and DML commands. Write the full form of DDL and DML. 2

**OR**

Differentiate between CHAR and VARCHAR data types in MySQL.

21. Define degree and cardinality of a table. What is the degree and cardinality of the following table SPORTS? 2

Table: **SPORTS**

| Sid  | Name        | Event              |
|------|-------------|--------------------|
| S001 | Amulya Rao  | 4 x 100 Mtrs Relay |
| S002 | Zaheer Khan | 400 Mtrs           |

22. Sampriti has to create a database named **AUTOMOBILES** in MYSQL. 2  
She now needs to create a table named **CARS** in the database to store the records of various cars in the store. The table **CARS** has the following structure. Help her to complete the task by suggesting appropriate SQL commands.

Table: **CARS**

| Field name | Data Type     |
|------------|---------------|
| CID        | CHAR(3)       |
| BRAND      | VARCHAR(25)   |
| QTY        | INTEGER       |
| PRICE      | DECIMAL(10,2) |

### SECTION-C

23. Write a python program to display those strings which are starting with 'A' from the given list. 3
24. Write a python program that creates a tuple storing first 15 terms of Fibonacci series. 3
- OR**
- Write a program to show entered string is a palindrome or not.
25. Write a program which inputs a tuple of n strings. Use a function to find the number of words in each string. 3
26. A binary file "**Office.dat**" has structure (Eid, Name, Salary). Write a function display() in Python that would read contents of the file "**Office.dat**" and display the details of those employee whose salary greater than 10000. 3
27. Write a python program to display the number of words in a file "**Poem.txt**". 3
28. Write a function REWRITE( ) to read all the lines of the file "**Message.txt**" that contain the character 'a' and write it to another file "**Final.txt**". 3
29. A binary file "**Library.dat**" has structure [Bookid, Title, Author, Price]. Write a user defined function Create\_File() to input data for a record and add to "**Library.dat**". 3

### SECTION-D

30. Rijo , a student of class 12<sup>th</sup> is learning CSV file module in Python. During examination, he has been assigned an incomplete Python code(shown below) to create a CSV file 'Student.csv' (content shown below). Help him in completing (Statements from 1 to 5)the code which creates the desired CSV file. 5

#### **CSV File**

**Rollno, Name, Class Section**

|   |         |    |   |
|---|---------|----|---|
| 1 | Anil    | XI | A |
| 2 | Abijith | XI | A |
| 3 | Binoy   | XI | A |

#### **#Incomplete code**

```
import _____ # Statement-1
fl = open(_____ , _____ . newline= ' ') # Statement-2
stwriter = csv. _____ # Statement-3
data = []
header = ['Rollno', 'Name', 'Class', 'Section']
data.append(header)
for i in range(3) :
 Rollno= int(input("Enter Roll No:"))
 Name = input("Enter Name:")
 Class = input("Enter Class:")
 Section = input("Enter Section:")
 data.append(_____) #Statement-4
stwriter. _____ (data) #Statement-5
fl.close()
```

31. Answer the following:

5

- Write the definition of a user-defined function PUSH(STK,N) which accepts a stack STK and a list of integers in a parameter N pushes all those integers which are divisible by 3 from the list N into a stack STK.
- Write a definition of a user-defined function POP(STK). The program should use the above created stack, STK to pop each integer from STK and display the popped value. When the list is empty, display the message "StackEmpty".

32. Write SQL commands for (i) to (v) on the basis of table EMPLOYEE:

5

**Table: EMPLOYEE**

| EMPNO | NAME     | DEPT       | SALARY |
|-------|----------|------------|--------|
| 1002  | Varun    | Sales      | 30000  |
| 1003  | Devesh   | Accounts   | 34000  |
| 1004  | Krishnan | Sales      | 25000  |
| 1005  | Abdul    | Stores     | 38000  |
| 1006  | Arun     | Production | 35000  |

- Display the structure of the table EMPLOYEE
- Display the details of all the employees from sales department.
- Display the names of the employees whose salary is in the range 20,000 – 50,000 (both lower limit and upper limit included).
- To display all the records in the ascending order of name.
- To display the name and department of employees whose name starts with letter 'A'.

**\*\*\*\*END OF THE QUESTION PAPER\*\*\*\***



|                |  |  |  |  |
|----------------|--|--|--|--|
| ROLL<br>NUMBER |  |  |  |  |
|----------------|--|--|--|--|

|     |   |
|-----|---|
| SET | B |
|-----|---|



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- **Section D** has 3 Long Answer type questions carrying **5** marks each.

**SECTION-A**

1. Fill in the blank: 1  
\_\_\_\_\_ clause is used with SELECT statement to display data in a sorted form with respect to a specified column.  
a) WHERE                      b) DISTINCT                      c) ORDER BY                      d) HAVING
2. You are given the text file, "**file1.txt**" whose contents are: 1  
hello everyone  
today is Monday  
all the best for your exams  
  
What will be the output of the following code?  
myfile = open("file1.txt")  
str = myfile.readline(6)  
str = myfile.readline()  
str = myfile.readline(8)  
print(str)  
myfile.close ()  
a) today is                      b) hello                      c) hello ev                      d) hello everyone
3. What is the default return value for a function that does not return any value explicitly? 1  
a) 0                      b) None                      c) -1                      d) Nothing





## SECTION-B

11. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables Start and End. 2
- ```
import random
VAL=[80,70,60,50,40,30,20,10]
Start = random.randint(1,3)
End = random.randint(Start,4)
for I in range(Start, End+1):
    print (VAL[I],end ="" )
```
- (i) 40*30*20*10* (ii) 70*60*50*40*30* (iii) 50*40*30* (iv) 60*50*40*
12. What will be the output of the following code? 2
- ```
value = 50
def display(N):
 global value
 value = 25
 if N%7 == 0:
 value = value + N
 else:
 value = value - N
print(value, end="#")
display(20)
print(value)
```
13. What will be the output of the following code? 2
- ```
def Diff(N1,N2):
    if N1 > N2:
        return N1-N2
    else :
        return N2-N1
NUM = [10,23,14,54,32]
for CNT in range(4,0,-1) :
    A= NUM[CNT]
    B= NUM[CNT-1]
    print(Diff(A,B), '#', end=' ')
```
14. Explain the raise statement in exception handling with an example. 2
15. Explain ImportError and IndexError built-in exceptions. 2
16. What is the difference between a text file and binary file? 2

17. Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 2

```
Def Create( ):
    f = open( Data.txt", 'w')
    for i in Range(4):
        name =input("Enter Name:")
        f.write(name)
    f.close
```

18. Suppose the content of the file "Rhymes.txt" is as follows: 2
Jack & Jill
Went up the hill
What is the output of following code?
F = open('Rhymes.txt', 'r')
L = F.readlines()
for i in L:
 S = i.split()
 print(len(S),end= '#')

19. Define Primary Key and Alternate Key. 2

20. Explain any two DDL and DML commands. Write the full form of DDL and DML. 2

OR

Differentiate between CHAR and VARCHAR data types in MySQL.

21. Define degree and cardinality of a table. What is the degree and cardinality of the following table COACH? 2

Table: **COACH**

Cid	Name	Game	Address
C008	Zaheer Khan	Basketball	Ruwi
C010	Akshay Pant	Football	Darsait

22. Sunayani has to create a database named **LIBRARY** in MYSQL. 2
She now needs to create a table named **BOOKS** in the database to store the records of various books in the store. The table **BOOKS** has the following structure. Help her to complete the task by suggesting appropriate SQL commands.

Table: **BOOKS**

Field name	Data Type
BID	CHAR(4)
AUTHOR	VARCHAR(20)
GENRE	VARCHAR(25)
PRICE	DECIMAL(9,2)

SECTION-C

23. Write a program which inputs a tuple of n strings. Use a function to find the number of words in each string. 3
24. Write a python program that creates a tuple storing first 15 terms of Fibonacci series. 3
- OR**
- Write a program to show entered string is a palindrome or not.
25. Write a python program to display those strings which are starting with 'A' from the given list. 3
26. A binary file "**Office.dat**" has structure (Eid, Name, Salary). Write a function display() in Python that would read contents of the file "**Office.dat**" and display the details of those employee whose salary greater than 10000. 3
27. Write a python program to display the number of vowels in a file "**Novel.txt**". 3
28. A binary file "**Library.dat**" has structure [Bookid, Title, Author, Price]. Write a user defined function Create_File() to input data for a record and add to "**Library.dat**". 3
29. Write a function REWRITE() to read all the lines of the file "**Message.txt**" that contain the character 'a' and write it to another file "**Final.txt**". 3

SECTION-D

30. Answer the following: 5
- Write the definition of a user-defined function PUSH(STK,N) which accepts a stack STK and a list of integers in a parameter N pushes all those integers which are divisible by 3 from the list N into a stack STK.
 - Write a definition of a user-defined function POP(STK). The program should use the above created stack, STK to pop each integer from STK and display the popped value. When the list is empty, display the message "StackEmpty".
31. Rijo, a student of class 12th is learning CSV file module in Python. During examination, he has been assigned an incomplete Python code(shown below) to create a CSV file 'Student.csv' (content shown below). Help him in completing (Statements from 1 to 5) the code which creates the desired CSV file. 5

CSV File

Rollno,	Name,	Class	Section
1	Anil	XI	A
2	Abijith	XI	A
3	Binoy	XI	A

#Incomplete code

```
import _____ # Statement 1
fl = open( _____ , _____ . newline= ' ') # Statement 2
stwriter = csv. _____ # Statement-3
data = [ ]
header = ['Rollno', 'Name', 'Class', 'Section']
data.append(header)
for i in range(3) :
    Rollno = int(input("Enter Roll No:" ))
    Name = input("Enter Name:")
    Class = input("Enter Class:")
    Section = input("Enter Section:")
    data.append( _____ ) #Statement 4
stwriter. _____ (data) #Statement 5
fl.close()
```

32. Write SQL commands for (i) to (v) on the basis of table EMPLOYEE:

5

Table: EMPLOYEE

EMPNO	NAME	DEPT	SALARY
1002	Varun	Sales	30000
1003	Devesh	Accounts	34000
1004	Krishnan	Sales	25000
1005	Abdul	Stores	38000
1006	Arun	Production	35000

- (i) Display the structure of the table EMPLOYEE
- (ii) Display the details of all the employees from accounts department.
- (iii) Display the names of the employees whose salary is greater than 25,000.
- (iv) To display all the records in the descending order of name.
- (v) To display the name and department of the employees whose name ends with letter 'n'.

******END OF THE QUESTION PAPER******



ROLL NUMBER				
----------------	--	--	--	--

SET	C
-----	---



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- **Section D** has 3 Long Answer type questions carrying **5** marks each.

SECTION-A

1. Sunil, a python programmer, is working on a project which requires to define a function with name Interest(). He defines it as:

```
def Interest(Principal, Rate=0.06, Time):
```

#code
 But this code is not working. Help Sunil to identify the error in the above function and with the solutions given below. 1
 - a) def Interest(Principal=2000, Rate=0.06, Time):
 - b) def Interest(Principal=5000, Rate, Time=00.6):
 - c) def Interest(Principal, Rate, Time=0.06):
 - d) Def Interest(Principal, Rate, Time=0.06):
2. Which of the following is a valid keyword in Python? 1
 - a) true
 - b) Raise
 - c) In
 - d) return
3. Fill in the blank: 1
 _____ clause is used with SELECT statement to display data in a sorted form with respect to a specified column.
 - a) WHERE
 - b) DISTINCT
 - c) ORDER BY
 - d) HAVING
4. Find the invalid identifier(s) from the following: 1
 - a) 5Rollno
 - b) salary
 - c) Rec&no
 - d) false
5. What is the output of the following code? 1

```
def func(x = 4, y = 3):
    x = x*y + 2
    y = y*2 - x
    print(x, y)
func(y= 7, x=5)
```

- a) 37 -23 b) 36 -22 c) 37 23 d) 36 22

6. When will the else part of try-except-else be executed? 1
- a) always
 - b) when an exception occurs
 - c) when no exception occurs
 - d) when an exception occurs in to except block

7. What is the full form of CSV file? 1
- a) Caps Separated Values
 - b) Comma Separated Values
 - c) Colon Separated Values
 - d) Caps Separated Values

8. You are given the text file, “**file1.txt**” whose contents are:
- ```
hello everyone
today is Monday
all the best for your exams
```

What will be the output of the following code?

```
myfile = open("file1.txt")
```

```
str = myfile.readline(6)
```

```
str = myfile.readline()
```

```
str = myfile.readline(8)
```

```
print(str)
```

```
print(str)
myfile.close()
```

- a) today is                      b) hello                      c) hello ev                      d) hello everyone

Q.9 is ASSERTION (A) and REASONING( R) based questions.

Mark the correct choice as

- a) Both (A) and (R) are true and (R) is the correct explanation for (A).  
b) Both (A) and (R) are true and (R) is not the correct explanation for (A).  
c) (A) is true but (R) is false  
d) (A) is false but (R) is true.

9. Assertion ( A ) : A stack is a LIFO structure. Reason ( R ) : Any new element pushed into stack always gets positioned at the index after the last existing element in the stack.

10. What is the default return value for a function that does not return any value explicitly? 1
- a) 0                      b) None                      c) -1                      d) Nothing

## SECTION-B

11. What will be the output of the following code? 2
- ```
def Diff(N1,N2):  
    if N1 > N2:  
        return N1-N2  
    else :  
        return N2-N1  
NUM = [10,23,14,54,32]  
for CNT in range(4,0,-1) :  
    A= NUM[CNT]  
    B= NUM[CNT-1]  
    print(Diff(A,B), '#', end= ' ')
```
12. What will be the output of the following code? 2
- ```
value = 50
def display(N):
 global value
 value = 25
 if N%7 == 0:
 value = value + N
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 value = value - N
print(value, end="#")
display(20)
print(value)
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13. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables Start and End. 2
- ```
import random  
VAL=[80,70,60,50,40,30,20,10]  
Start = random.randint(1,3)  
End = random.randint(Start,4)  
for I in range(Start, End+1):  
    print (VAL[I],end ="" )
```
- (i) 40*30*20*10* (ii) 70*60*50*40*30* (iii) 50*40*30* (iv) 60*50*40*
14. Explain NameError and EOFError built-in exceptions. 2
15. What is the difference between a text file and binary file? 2
16. Explain the raise statement in exception handling with an example. 2

17. Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 2

```
Def Create( ):
    f = open( Data.txt", 'w')
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        name =input("Enter Name:")
        f.write(name)
    f.close
```

18. Suppose the content of the file "Rhymes.txt" is as follows: 2
Jack & Jill
Went up the hill
What is the output of following code?
F=open('Rhymes.txt', 'r')
L=F.readlines()
for i in L:
 S = i.split()
 print(len(S),end= '#')

19. Define Primary Key and Alternate Key. 2

20. Explain any two DDL and DML commands. Write the full form of DDL and DML. 2

OR

Differentiate between CHAR and VARCHAR data types in MySQL.

21. Define degree and cardinality of a table. What is the degree and cardinality of the following table SHOP? 2

Table: **SHOP**

Spid	Name	Quantity	Reorder	Date
SP20	HP Laptop	500	100	2023-12-10
SP18	Acer Laptop	300	150	2023-12-05
SP42	Asus Laptop	200	75	2023-12-02

22. Richa has to create a database named **SHOWROOM** in MYSQL. 2
She now needs to create a table named **VEHICLE** in the database to store the records of various cars in the store. The table **VEHICLE** has the following structure. Help her to complete the task by suggesting appropriate SQL commands.

Table: **VEHICLE**

Field name	Data Type
VID	CHAR(5)
VBRAND	VARCHAR(30)
QTY	INTEGER
PRICE	DECIMAL(8,2)

SECTION-C

23. Write a python program that creates a tuple storing first 15 terms of Fibonacci series. 3
OR
Write a program to show entered string is a palindrome or not.
24. Write a python program to display those strings which are starting with 'A' from the given list. 3
25. Write a program which inputs a tuple of n strings. Use a function to find the number of words in each string. 3
26. A binary file "**Office.dat**" has structure (Eid, Name, Salary). Write a function display() in Python that would read contents of the file "**Office.dat**" and display the details of those employee whose salary greater than 10000. 3
27. A binary file "**Library.dat**" has structure [Bookid, Title, Author, Price]. Write a user defined function Create_File() to input data for a record and add to "**Library.dat**". 3
28. Write a function REWRITE() to read all the lines of the file "**Message.txt**" that contain the character 'a' and write it to another file "**Final.txt**". 3
29. Write a program to display the number of lines starting with 'M' or 'E' in a file "**Lyrics.txt**". 3

SECTION-D

30. Rijo , a student of class 12th is learning CSV file module in Python. During examination, he has been assigned an incomplete Python code(shown below) to create a CSV file '**Student.csv**' (content shown below). Help him in completing (Statements from 1 to 5) the code which creates the desired CSV file. 5

CSV File

Rollno, Name, Class Section

1	Anil	XI	A
2	Abijith	XI	A
3	Binoy	XI	A

#Incomplete code

```
import _____ # Statement 1
fl = open( _____ , _____ . newline= ' ') # Statement 2
stwriter = csv. _____ # Statement-3
data = [ ]
header = ['Rollno', 'Name', 'Class', 'Section']
data.append(header)
for i in range(3) :
    Rollno= int(input("Enter Roll No:"))
    Name = input("Enter Name:")
    Class = input("Enter Class:")
    Section = input("Enter Section:")
    data.append( _____ ) #Statement 4
stwriter. _____ (data) #Statement 5
fl.close()
```

31. Answer the following:

5

- Write the definition of a user-defined function PUSH(STK,N) which accepts a stack STK and a list of integers in a parameter N pushes all those integers which are divisible by 3 from the list N into a stack STK.
- Write a definition of a user-defined function POP(STK). The program should use the above created stack, STK to pop each integer from STK and display the popped value. When the list is empty, display the message "StackEmpty".

32. Write SQL commands for (i) to (v) on the basis of table EMPLOYEE:

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Table: EMPLOYEE

EMPNO	NAME	DEPT	SALARY
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1003	Devesh	Accounts	34000
1004	Krishnan	Sales	25000
1005	Abdul	Stores	38000
1006	Arun	Production	35000

- Display the structure of the table EMPLOYEE
- Display the details of all the employees from production department.
- Display the names of the employees whose salary is less than 30,000.
- To display all the records in the ascending order of salary.
- To display the name and department of the employees whose name has the letters 'sh' together.

******END OF THE QUESTION PAPER******

