

# AGARAM PUBLIC SCHOOL, DHARAPURAM

**Class: XII**

**COMPUTER SCIENCE (083)**

**MAX.MARKS: 70**

**Date: 19.01.2021**

**Revision Test -VII (2020-2021)**

**Time: 3 Hrs.**

## 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 studies 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 Descriptive Paper.
5. Part- B has three sections
  - a. Section-I is short answer questions of 2 marks each in which two question 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 internal option.
6. All programming questions are to be answered using Python Language only

Ques.No	PART A	Marks
	<b>Section-I</b> <b>Select the most appropriate option out of the options given for each question. Attempt any 15 questions from question no 1 to 21.</b>	
1	A statement that appears in the code and but does nothing.  a) Token    b) Lexical unit    c) Empty statement    d) Coercion	1
2	Name given by user for a part of a program.  a) Token    b) Keyword    c) Constant    d) identifier	1
3	See the Python string declaration below	1

	<pre>myschool="aps bengdubi"</pre> <p>Write the output of</p> <pre>myschool[::-1]</pre> <p>Ans : ibudgneb spa</p>	
4	<p>Write the output of the following python code:</p> <pre>x="apple,pear,peach"</pre> <pre>y=x.split(",")</pre> <pre>for z in y:</pre> <pre>    print(z)</pre> <p>Ans : apple pear peach</p>	1
5	<p>Which of the following is not a Relational operator?</p> <ul style="list-style-type: none"><li>a. ==</li><li>b. !=</li><li>c. =</li><li>d. &gt;</li></ul>	1
6	<p>The keys of a dictionary must be of immutable type</p> <p>a) True      b) False</p>	1
7	<p>Identify the valid bitwise operator in Python from the following.</p> <p>a) &lt;&lt;      b) &lt;      c) **      d) and</p>	1
8	<p>Write the type of tokens from the following :</p> <p>a) For      b) Num</p>	1
9	<p>A Dictionary is declared in Python as below</p> <pre>mydi={1:2,3:4}</pre> <p>Identify the keys and values</p>	1

10	A function can return multiple values. a) True    b) False	1
11	The values being passed through a function call statements are called a) Actual parameter    b) Formal parameter    c) None of these	1
12	Finds the error in following function definition. def main(): print("hai")	1
13	Which operator is used in python to import all modules from package? a) .Operator    b) ->Symbol    c) *Operator    d) ,Operator	1
14	A file object is also known as _____ Ans : file handle	1
15	The full name of a file or a directory is called a) readline( )    b) file    c) file handle    d) pathname	1
16	LIFO technique is followed in _____ a) Stacks    b) Queue    c) Linked List    d) None of these	1
17	A _____ is a device that connects dissimilar networks. a) Router    b) Switch    c) Gateway    d) Hub	1
18	An interconnected collection of computer is called _____	1
19	A row of relation is generally referred to as a a) Tuple    b) Domain    c) View    d) None of these	1

20	<p>Tuples in a table can be deleted using_____ Command</p> <p>a) Drop                      b)Remove                      c) Alter                      d) Delete</p>	1																																																			
21	<p>The result of an aggregate function is a _____</p> <p>a) Numeric values    b) Multiple values    c) Single values    d) None</p>	1																																																			
<p><b>Section-II</b></p> <p><b>Both the Case study based questions are compulsory. Attempt any 4 sub parts from each question. Each question carries 1 mark</b></p>																																																					
22	<p>Consider the following tables GAMES and PLAYER and answer (b) and (c) parts of this question:</p> <p style="text-align: center;"><b>Table : Games</b></p> <table border="1" data-bbox="228 856 1360 1329"> <thead> <tr> <th>Gcode</th> <th>GName</th> <th>GType</th> <th>GNumber</th> <th>Prize Money</th> <th>Date of Schedule</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>Badminton</td> <td>Indoor</td> <td>2</td> <td>10000</td> <td>23-Jan-2019</td> </tr> <tr> <td>102</td> <td>Tab.Tennis</td> <td>Indoor</td> <td>2</td> <td>12000</td> <td>12-july-2020</td> </tr> <tr> <td>103</td> <td>Golf</td> <td>Outdoor</td> <td>3</td> <td>15000</td> <td>26-sep-2018</td> </tr> <tr> <td>105</td> <td>Chess</td> <td>Indoor</td> <td>2</td> <td>9000</td> <td>15-Aug-2019</td> </tr> <tr> <td>108</td> <td>Cycling</td> <td>Outdoor</td> <td>3</td> <td>9000</td> <td>12-Mar-2019</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Table : Player</b></p> <table border="1" data-bbox="272 1457 1300 1787"> <thead> <tr> <th>Player Code</th> <th>Name of the player</th> <th>GCode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Jeeva</td> <td>101</td> </tr> <tr> <td>2</td> <td>Sivakumar</td> <td>108</td> </tr> <tr> <td>3</td> <td>Ramkumar</td> <td>105</td> </tr> <tr> <td>4</td> <td>Subash</td> <td>101</td> </tr> </tbody> </table> <p>i.      What do you understand by primary key and Foreign key</p> <p>ii.     Write the SQL commands for the following:</p>	Gcode	GName	GType	GNumber	Prize Money	Date of Schedule	101	Badminton	Indoor	2	10000	23-Jan-2019	102	Tab.Tennis	Indoor	2	12000	12-july-2020	103	Golf	Outdoor	3	15000	26-sep-2018	105	Chess	Indoor	2	9000	15-Aug-2019	108	Cycling	Outdoor	3	9000	12-Mar-2019	Player Code	Name of the player	GCode	1	Jeeva	101	2	Sivakumar	108	3	Ramkumar	105	4	Subash	101	<p style="text-align: right;">1</p> <p style="text-align: right;">1</p>
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4	Subash	101																																																			

To display the content of the GAMES table in ascending order of Schedule Date

iii. Write the SQL command for the following statement: 1

To display sum of PrizeMoney for the GAMES.

iv. Write the SQL command for the following statement: 1

To display details of those GAMES which are having PrizeMoney more than 7000.

v. Write the SQL command for the following statement: 1

To display the name of all GAMES with their GCodes .

23 A text file "Test.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. 1

ii. Which of the following function flushes the files implicitly? 1

a. flush()

b. close()

c. open()

d. fflush()

iii. A \_\_\_\_\_ function reads first 15 characters of file. 1

iv. You can create a file using \_\_\_\_\_ function in python. 1

v. A \_\_\_\_\_ function requires a sequence of lines, lists, tuples etc. to write data into file 1

### PART B

### SECTION I

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

Underline each correction done in the code.

2

```

Num = input("Number:")
Sum = 0
for i in range(10,Num,3)
Sum+=i
    if i%2=0:
print ( i*2)
Else:
print ( i*3 print Sum)

```

- |    |  |   |
|----|--|---|
| 25 | Write the expanded names for the following abbreviated terms used in   | 2 |
|    | Networking and Communications  |   |
|    | <ul style="list-style-type: none"> <li>i. GPRS</li> <li>ii. GSM</li> <li>iii. POP</li> <li>iv. CDMA</li> </ul>   |   |
| 26 | What is E-mail? What are its advantages?   | 2 |
| 27 | What do you mean by IP Address? How is it useful in Computer Security?   | 2 |
| 28 | How can we import a module in Python?  | 2 |
| 29 | Find and write the output of the following python code(if errors means correct it):  | 3 |
|    | <pre> L = ["X",20,"Y",10,"Z",30] CNT = 0 ST = "" INC = 0 for C in range(1,6,2): CNT= CNT + C ST= ST + L[C-1] + "@" INC = INC + L[C] print(CNT, INC, ST) </pre> |   |
| 30 | What are different types of SQL functions?   | 3 |

31	Write a python database connectivity script that deletes records from <b>category</b> table of database <b>items</b> that have name ='Stockable'	4
32	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( )	4
33	What is Routing? Explain with routing table.	3

### SECTION II

34	Write a function in Python that reads a text file and count the number of words?	2
35	Write a function to accept values at run time and construct a tuple. The tuple grows as t=() t=(23) t=(23,45) and so on as the user wishes to continue	3
36	Write a program that copies a text file "Soruce.txt" onto "Target.txt" barring the lines starting with a "@" sign.	2
37	Discuss how IPv4 is different from IPv6.	2

### SECTION III

38	Consider the following table STORE. Write SQL commands for the following statements.  Table : <b>STORE</b>	
----	--	--

Item No	Item	SCode	Qty	Rate	Last Buy
2005	Sharpener	23	60	8	31-Jun-2018
2003	Ball pen 0.5	22	50	18	01-Feb-2019
2002	Gel Pen Premium	21	150	15	23-Feb-2020
2006	Gel Pen Classic	21	250	20	11-Mar-2019
2001	Eraser Small	22	220	6	04-Jan-2021
2004	Eraser Big	22	110	8	04-Jan-2021
2009	Ball Pen 0.25	22	50	25	01-Feb-18

- i. Write a Command to inserting data into a table. (2010, Pencil, 28, 12, 5, 02-jan-10)
- ii. To display details of all the items in the Store table in ascending order of LastBuy.
- iii. To display ItemNo and Item name of those items from Store table whose Rate is more than 15 Rupees.
- iv. 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.
- v. To display the Minimum Rate of items for each Supplier individually as per Scode from the table store

39

Write a program that accept a number and find out whether it's Armstrong number or not.

40

Explain the following terms:

- i. Hub ii. Router

1

1

1

1

1

3

2

\*\*\*\*\*ALL THE BEST \*\*\*\*\*