



12th Standard

COMPUTER SCIENCE

**FIRST REVISION
TEST-2023**

**Various District Question Paper
Collection**

COMMON FIRST REVISION EXAMINATION - 2023**Standard - XII**

Reg.No.

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Time: 3.00 hrs.**COMPUTER SCIENCE****Marks: 70****PART - I****Answer all the questions. Choose the correct answer:****15×1=15**

- Which of the following is a distinct syntactic block?
a) Subroutines b) Function c) Definition d) Modules
- The data type Whose representation is known are called
a) Built in data type b) derived data type
c) Concrete data type d) Abstract data type
- The Process of subdividing a computer program into separate sub-program is called
a) procedural Programming b) Modular programming
c) Event Drives Programming d) Object Oriented programming
- Two main measures for the efficiency of an algorithm are
a) Processor and memory b) Complexity and capacity
c) Time and space d) Data and space
- Which operator is also called as comparative operator?
a) Arithmetic b) Relational c) Logical d) Assignment
- What plays a vital role in python programming?
a) Statements b) Control c) structure d) Indentation
- Which of the following keyword is used to exit a function block?
a) define b) return c) finally d) def
- The subscript of a string may be
a) Positive b) Negative c) Both (a) and (b) d) Either (a) or (b)
- Let set A = {3, 6, 9}, set B = {1, 3, 9}. What will be the result of the following snippet?
Print (set A \ set B)
a) {3, 6, 9, 1, 3, 9} b) {3, 9} c) {1} d) {1, 3, 6, 9}
- A private class variable is prefixed with
a) _ _ b) & & c) # # d) * *
- Who is called Father of Relational Database from the following?
a) Chris Date b) Hugh Darween c) Edgar Frank codd d) Edgar frank Cadd
- Queries can be generated using
a) SELECT b) ORDER BY c) GROUP BY d) ALTER
- Which of the following is a string used to terminate line produced by Writer() method of CSV module?
a) Line Terminator b) Enter key
c) Form feed d) Data Terminator
- Which of the following is not a scripting language?
a) Java Script b) PHP c) Perl d) HTML
- Any changes made in the values of the record should be saved by the command
a) save b) Save As c) Commit d) Oblige

PART - II**Write any six questions. Question No.24 is compulsory.****6×2=12**

16. What is a pair? Give an example.
17. What do you mean by Namespaces?
18. What are the main advantages of function?
19. What is slicing?
20. What is instantiation?
21. Differentiate Unique and Primary key Constraint.
22. What is the use of modules?
23. List the types of visualizations in Matplotlib.
24. What is the output of the following Snippet?

```
for i in range ( 2, 10, 2):
    print ( i, end = '')
```

PART - III**Answer any six questions. Question No. 33 is compulsory.****6×3=18**

25. Mention the characteristics of Interface.
26. Write a note on Asymptotic notation.
27. What are the assignment operators that can be used in python?
28. What are the advantages of Tuples over a list?
29. What is the role of DBA?
30. What is the difference between reader () and DictReader () function?
31. What is SQLite? What is its advantage?
32. Write the syntax of while loop.
33. What will be the output of the given python program?

```
>>>str1 = "Welcome to learn Python".
>>> print (str1 [10: 16])
>>> Print (str1 [10: 16 : 2])
>>> Print (str1 [ : : 3])
```

PART - IV**Answer all the questions.****5×5=25**

34. a) Explain with example pure and impure functions. (OR)
- b) Explain the characteristics of an algorithm.
35. a) Discuss in detail about Tokens in Python. (OR)
- b) Write a detail note on for Loop.
36. a) Explain the scope of variables with an example. (OR)
- b) Explain about string operators in python with suitable example.
37. a) What is the Purpose of range () ? Explain with an example. (OR)
- b) What are the components of SQL? Write the commands in each.
38. a) Write the rules to be followed to format the data in a CSV file. (OR)
- b) Write the syntax for getopt () and explain its arguments and return values.

SALEM

12 - STD**FIRST REVISION EXAMINATION - 2023**

TIME : 3.00 HRS

COMPUTER SCIENCE

MARKS : 70

15 x 1 = 15

PART I**ANSWER ALL THE QUESTIONS****CHOOSE THE CORRECT ANSWER**

- 1) Which of the following is a distinct syntactic block?
(a) Subroutines (b) Function (c) Definition (d) Modules
- 2) Which of the following members of a class can be handled only from within the class?
(a) Public members (b) Protected members (c) Secured members (d) Private members
- 3) Which of the following is not a stable sorting algorithm?
(a) Insertion sort (b) Quick sort (c) Merge sort (d) Selection sort
- 4) Which of the following character is used to give comments in Python Program?
(a) # (b) & (c) @ (d) \$
- 5) Which statement is generally used as a placeholder?
(a) continue (b) break (c) pass (d) goto
- 6) Read the following statement and choose the correct statement(s).
(I) In Python, you don't have to mention the specific data types while defining function.
(II) Python keywords can be used as function name.
(a) I is correct and II is wrong (b) Both are correct (c) I is wrong and II is correct
(d) Both are wrong
- 7) What is stride?
(a) index value of slide operation (b) first argument of slice operation
(c) second argument of slice operation (d) third argument of slice operation
- 8) What is the use of type() function in python?
(a) To create a Tuple (b) To know the type of an element in tuple.
(c) To know the data type of python object (d) To create a list.
- 9) Functions defined inside a class:
(a) Functions (b) Module (c) Methods (d) section
- 10) What symbol is used for SELECT statement?
(a) σ (b) Π (c) X (d) Ω
- 11) A CSV file is also known as a
(a) Flat File (b) 3D File (c) String File (d) Random File
- 12) Which of the following mode is used when dealing with non-text files like image or exe files?
(a) Text mode (b) Binary mode (c) xls mode (d) csv mode
- 13) Which of the following is not a scripting language?
(a) JavaScript (b) PHP (c) Perl (d) HTML
- 14) Which of the following is a control structure used to traverse and fetch the records of the database?
(a) Pointer (b) Key (c) Cursor (d) Insertion point
- 15) Which is a python package used for 2D graphics?
(a) matplotlib.pyplot (b) matplotlib.pip (c) matplotlib.numpy (d) matplotlib.plt

PART II**ANSWER ANY SIX QUESTIONS****Q.NO22 IS COMPULSORY**

- 16) What is Mapping?
- 17) Write short notes on Exponent data?

6 x 2 = 12

12-HSL-CS-EM-1

- 18) Write note on range () in loop.
- 19) What are the main advantages of function?
- 20) Differentiate del with remove() function of List.
- 21) What is instantiation?
- 22) Differentiate Unique and Primary Key constraint
- 23) What is CSV File?
- 24) Differentiate compiler and interpreter.

6x3 = 18

PART III

ANSWER ANY SIX QUESTIONS

Q.NO 3 IS COMPULSORY 32

- 25) List the characteristics of an algorithm.
- 26) What are the points to be noted while defining a function?
- 27) What is the use of format()? Give an example.
- 28) How to define constructor and destructor in Python?
- 29) Explain Object Model with example.
- 30) Write the use of Savepoint command with an example.
- 31) What is the difference between the write mode and append mode.
- 32) Differentiate PYTHON and C++.
- 33) What is SQLite? What is its advantage?

PART IV

ANSWER ALL THE QUESTIONS

5x5 = 25

- 34) What are called Parameters and write a note on
 - (i) Parameter without Type
 - (ii) Parameter with Type (OR)
- 35) Write any five benefits in using modular programming.
- 36) Explain input() and print() functions with examples. (OR)
- 37) Write a detail note on for loop.
- 38) Explain the following built-in functions. (OR)
 - (a) id()
 - (b) chr()
 - (c) round()
 - (d) type()
 - (e) pow()
- 39) Explain the different set operations supported by python with suitable example.
- 40) Explain the different types of data model. (OR)
- 41) Consider the following employee table. Write SQL commands for the qtns. (i) to (v).

EMP CODE	NAME	DESIG	PAY	ALLOWANCE
S1001	Hariharan	Supervisor	29000	12000
P1002	Shaji	Operator	10000	5500
P1003	Prasad	Operator	12000	6500
C1004	Manjima	Clerk	8000	4500
M1005	Ratheesh	Mechanic	20000	7000

- (i) To display the details of all employees in descending order of pay.
 - (ii) To display all employees whose allowance is between 5000 and 7000.
 - (iii) To remove the employees who are mechanic.
 - (iv) To add a new row.
 - (v) To display the details of all employees who are operators.
- 42) Differentiate Excel file and CSV file. (OR)
- 43) What is the purpose of sys, os, getopt module in Python. Explain.

12-HSL-CS-EM2

Class : 12

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Register
Number**REVISION EXAMINATION, JANUARY - 2023****COMPUTER SCIENCE**

Time Allowed : 3.00 Hours]

PART - I

[Max. Marks : 70

Note : i) All the questions.

15X1 = 15

ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- The function which will give exact result when same arguments are passed are called
a) Impure functions b) Partial functions c) Dynamic functions d) Pure functions
- What will be the value of X from the following code snippet?
A, B = 10, 3 X = A if (A / B == 3) else B print (x)
a) 3 b) 10 c) True d) False
- Big Ω is the reverse of
a) Big O b) Big c) Big A d) Big S
- ADT can be implemented using
a) singly linked list b) doubly linked list c) either A or B d) neither A nor B
- Which are loaded as soon as the library files are imported to the program?
a) Built - in scope b) Enclosed scope c) Global scope d) Local scope.
- The output of the segment.
for i in range (10, 0, 2):
print (i)
a) 10 9 6 4 2 0 b) 0 2 4 6 8 10 c) 10 8 6 4 2 d) error
- What plays a vital role in Python programming?
a) Statements b) Control c) Structure d) Indentation
- Which arguments the correct positional order is passed to a function?
a) Required b) Keyword c) Default d) Variable - length
- The positive and negative index values of 'P' in the string Str1 = "COMPUTER" are
a) 3, -4 b) 4, -4 c) 3, -5 d) 4, -5
- Which is a mutable and unordered collection of elements without duplicates?
a) list b) tuple c) set d) dictionary
- Class members are accessed through which operator?
a) & b) . c) # d) %
- A tuple is also known as
a) table b) row c) attribute d) field
- Which key is used to run the module?
a) F6 b) F4 c) F3 d) F5
- The most commonly used statement in SQL is
a) cursor b) select c) execute d) commit
- The module which allows you to interface with the Windows operating system is
a) OS module b) sys module c) csv module d) getopt module

PART B

II. Answer any 6 of the following.Q.No. 23 is compulsory.

6x2=12

- Write the interface you get from X:=(78)
- What is searching? Write its types.
- Define operator and operand
- Write the different types of function
- What will be the output?

Str1 = "THOLKAPPIYAM"

- print (Str1 [4:] b) print (Str1 [: -3])

CP/12/C.S/1

21. What will be the output ?
`Mydict = { chr (x) : x for x in range (97,102)}`
`print (Mydict)`
22. Mention few examples of a database
23. Write categories of SQL commands.
24. What is use of next () function?

PART C

III. Answer any 6 of the following.Q.No. 31Compusory.

6x3=18

25. Which jump statement is used as placeholder? Why?
26. Write a short note on string slicing with syntax and example.
27. What are the advantages of Tuples over a list?
28. Write a Python program to check and print if the given number is odd or even using class.
29. What is the difference between Select and Project command?
30. Compare Delete , Truncate and Drop in SQL.
31. Differentiate PYTHON and C++
32. Write a short note on a) fetchall () b) fetchone () c) fetchmany ()
33. Draw the output for the following data visualization plot.

```
import matplotlib.pyplot as plt
plt.bar([1,3,5,7,9],[5,2,7,8,2], label="Example one")
plt.bar([2,4,6,8,20],[8,6,2,5,6], label="Example two", color='g')
plt.legend( )
plt.xlabel('bar number')
plt.ylabel('bar height')
plt.title('Epic Graph\nAnother Line! Whoa')
plt.show( )
```

PART - D

IV. Answer the following.

5 X 5 = 25

34. a) Explain Input() and print() functions with eg
 (OR)
 b) Explain the following built - in functions.
 a) id() b) chr () c) round () d) type () e) pow ()
35. a) Explain set operations.
 (OR)
 b) Explain the different types of data model
36. a) Mylist = [10, 20, 30, 49, 50, 60, 70, 80, 90, 100]
 Write the Python commands for the following based on above list.
 i) To print all elements in list.
 ii) Find list length.
 iii) Add multiple elements [110, 120, 130]
 iv) Delete from fourth element to seventh element.
 v) Delete entire list.
 (OR)
 b) Write the features of Python over C++.
37. a) Tabulate the different mode with its meaning.
 (OR)
 b) Explain the various buttons in matplotlib window.
38. a) Write a Python script to create a table called ITEM with following specification.
 Add one record to the table.
 Name of the database : -ABC Name of the table : -Item
 Column name and specification : -
 lcode : Integer and act as primary key Item Name :
 Character with length 25
 Rate : Integer
 Record to be added : 1008, Monitor, 15000
 (OR)
 b) Discuss about linear search algorithm with example

CP / 12 / C.S / 2

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COMPUTER SCIENCE

Time: 3.00 hrs.

Part - I

Marks: 70

15 x 1 = 15

I. Choose the correct answer:

- The values which are passed to a function definition are called
a) arguments b) subroutines c) functions d) definition
- Which members are accessible from outside the class?
a) public members b) protected members
c) secured members d) private members
- In dynamic programming the technique of storing the previously calculated values is called
a) saving value property b) storing value property
c) memorization d) mapping
- Who developed Python?
a) Ritche b) Guido Van Rossum
c) Bill Gates d) Sundar Pichai
- 'elif' can be considered to be short form of _____
a) else if b) nested if c) if ... elif d) if ... else
- Which of the following keyword is used to exit a function block?
a) define b) return c) finally d) def
- Defining strings within triple quotes allows creating
a) single line strings b) multiline strings
c) double line strings d) multiple strings
- Let Set A = {3,6,9}, Set B = {1,3,9}. What will be the result of the following snippet?
print (Set A & Set B)
a) {3,6,9,1,3,9} b) {3,9} c) {1} d) {1,3,6,9}
- Which of the following method is used as destructor?
a) -- init -- () b) -- dest -- () c) -- rem -- () d) -- del -- ()
- Which database model represents parent-child relationship?
a) relational b) network c) hierarchical d) object
- Queries can be generated using
a) SELECT b) ORDER BY c) MODIFY d) ALTER
- Which of the following creates an object which maps data to a dictionary?
a) listreader () b) reader () c) tuple reader () d) dict reader ()
- The explanation of API is
a) Application Programming Interpreter b) Application Programming Interface
c) Application Performing Interface d) Application Programming Interlinks
- Which of the following is an organized collection of data?
a) database b) DBMS c) information d) records
- A _____ is a collection of resources assembled to create a single unified visual display.
a) infographics b) dashboard c) scatter plot d) box plot

Part - II

II. Answer any 6 questions. (Q.No.24 is compulsory)

6 x 2 = 12

- Differentiate constructors and selectors.
- What is sorting?

18. What is a literal? Explain the types of literals.
19. How will you delete a string in Python?
20. What is the purpose of destructor?
21. Write a query that selects all students whose age is less than 18 in order wise.
22. What is csv file?
23. List the general types of data visualization.
24. What is the output of the following snippet?

```
for i in range (2,10,2):
    print (i, end = '')
```

Part - III**III. Answer any 6 questions. (Q.No.33 is compulsory)****6 x 3 = 18**

25. Why strlen is called pure function?
26. Define enclosed scope with an example.
27. Write short notes on arithmetic operator with examples.
28. How recursive function works?
29. What are the advantages of Tuples over a list?
30. What is the role of DBA?
31. Write any three features of Python.
32. Mention the difference between fetchone() and fetchmany().
33. Evaluate the following function and write the output :

```
x = 14.14
print(math.floor(x))
print(math.ceil(x))
```

Part - IV**IV. Answer all the questions.****5 x 5 = 25**

34. a) Explain with example : Pure and Impure functions.
(OR)
 b) Discuss about Linear search algorithm.
35. a) Describe in detail the procedure script mode programming.
(OR)
 b) Explain the following built-in-functions.
 a) id() b) chr() c) round() d) type() e) pow()
36. a) Explain about stringing operators in Python with suitable example.
(OR)
 b) What is the purpose of range()? Explain with an example.
37. a) Differentiate DBMS and RDBMS.
(OR)
 b) Write the different methods to read a file in Python.
38. a) What is the purpose of sys, os, getopt module in Python? Explain.
(OR)
 b) Explain the various buttons in a matplotlib window.



12-01-2023.

Standard 12**COMPUTER SCIENCE**

Time Allowed: 3.00 Hours

Maximum Marks: 70

Part - I**15×1=15****Answer all the questions.****Choose the correct answer and write the option code with answer:**

- Identify the package manager for python packages, or modulus
a) Matplotlib b) PIP c) Plt.show() d) Python package
- Which of the following is called the master table?
a) sqlite - master b) sql-master c) main-master d) master-main
- getopt() will return an empty array if there is no error in splitting strings to
a) argv variable b) opt variable c) args variable d) ifile variable
- Which of the following mode is used when dealing with non-text files like image or exe files?
a) Text mode b) Binary mode c) xls mode d) csv mode
- The command to delete a table including the structure is
a) DROP b) DELETE c) DELETE ALL d) ALTER TABLE
- Which of the following is an RDBMS?
a) Dbase b) Foxpro c) Microsoft Access d) SQ Lite
- A private variable is prefixed with
a) _ b) && c) ## d) **
- Let list 1=[2, 4, 6, 8, 10], then print (List 1[-2]) will result in
a) 10 b) 8 c) 4 d) 6
- Which of the following is used as placeholders or replacement fields which get replaced along with format () function?
a) { } b) <> c) ++ d) ^^
- While defining a function which of the following symbol is used?
a) ; (semicolon) b) . (dot) c) : (colon) d) \$ (dollar)
- Which statement is generally used as a placeholder?
a) continue b) break c) pass d) goto
- Which of the following is not a token?
a) Interpreter b) Identifiers c) Keyword d) Operators
- From the following sorting algorithms which has the lowest worst case complexity?
a) Bubble sort b) Quick sort c) Merge sort d) Selection sort
- Which scope refers to variables defined in current function?
a) Local scope b) Global scope c) Module scope d) Function scope
- The datatype whose representation is unknown are called
a) Built in data type b) Derived data type
c) Concrete data type d) Abstract data type

Part - II**Answer any six questions. Q.No. 24 is compulsory:****6×2=12**

- Define function with respect to programming language.
- What are the characteristics of modules?
- Write a note on range() in loop.
- What is string?
- Write the syntax to create list with suitable example in python.
- Write categories of SQL commands.
- What is the theoretical difference between scripting language and other programming language?
- List the types of visualization in Matplotlib.
- What is the use of next() function?

Part - III

Answer any six questions. Q.No.33 is compulsory:

6×3=18

- 25) Define Abstraction. What is Abstract data type?
- 26) Write a note on Dynamic programming.
- 27) Explain Ternary operator with example.
- 28) What are advantages of Tuples over a list.
- 29) Write a note on types of DBMS users.
- 30) Write short notes on TCL commands in SQL.
- 31) What are the applications of scripting languages?
- 32) Differentiate python and C++.
- 33) What will be the output of the given python program?
a = "computer"
b = "science"
x = a[:4]+b[len(b).3:]
print (x)

Part - IV

Answer all the questions:

5×5=25

- 34) a) What is Binary search? Discuss with example.

(OR)

- b) Explain data types in python with suitable example.

- 35) a) Explain the following built in function:

(i) id() (ii) chr() (iii) round() (iv) type() (v) pow()

(OR)

- b) Write the output of the following python programs.

- i) j = 15

```
while (j>=10):
```

```
    print (j, end='\t')
```

```
    j = j-1
```

```
else:
```

```
    print("\n End of the loop")
```

- ii) i = 1

```
while (i<=6):
```

```
    for j in range (1, i):
```

```
        print (j, end='\t')
```

```
    print (end='\n')
```

```
    i+=1
```

- 36) a) 1) What is slicing?

- 2) What is the output for the following commands?

```
str = "Thinking with python"
```

```
i) print (str[:3])
```

```
ii) print (str[::-4])
```

```
iii) print (str[9:13])
```

(OR)

- b) What is set in python? Explain the following set operations with suitable example.

(i) Union (ii) Intersection (iii) Difference

- 37) a) Differentiate DBMS and RDBMS.

(OR)

- b) Explain the types of data model.

- 38) a) Write any five key difference between Histogram and Bar Graph.

(OR)

- b) Explain each word of the following command.

```
python < filename.py > - <i> <c++ filename without cpp extension>
```

FIRST REVISION TEST - 2023**CLASS : 12****TIME : 3 HOURS****COMPUTER SCIENCE****MARKS : 70****I. Choose the correct answer :****15 x 1 = 15**

1. The variables in a function definition are called as
(a) Subroutines (b) Function (c) Definition (d) Parameters
2. The data type whose representation is known are called
(a) Built in datatype (b) Derived datatype (c) Concrete datatype (d) Abstract datatype
3. The process of subdividing a computer program into separate sub-programs is called
(a) Procedural Programming (b) Modular programming
(c) Event Driven Programming (d) Object oriented Programming
4. The Θ notation in asymptotic evaluation represents
(a) Base case (b) Average case (c) Worst case (d) NULL case
5. Which operator is also called as Conditional operator?
(a) Ternary (b) Relational (c) Logical (d) assignment
6. Which of the following keyword is used to exit a function block?
(a) define (b) return (c) finally (d) def
7. The subscript of a string may be:
(a) Positive (b) Negative (c) Both (a) and (b) (d) Either (a) or (b)
8. If List=[10,20,30,40,50] then List[2]=35 will result
(a) [35,10,20,30,40,50] (b) [10,20,30,40,50,35]
(c) [10,20,35,40,50] (d) [10,35,30,40,50]
9. Which of the following class declaration is correct?
(a) class class_name (b) class class_name<>
(c) class class_name: (d) class class_name[]
10. Which of the following is an RDBMS?
(a) Dbase (b) Foxpro (c) Microsoft Access (d) SQLite
11. Queries can be generated using
(a) SELECT (b) ORDER BY (c) MODIFY (d) ALTER
12. A CSV file is also known as a
(a) Flat File (b) 3D File (c) String File (d) Random File
13. The expansion of API is
(a) Application Programming Interpreter (b) Application Programming Interface
(c) Application Performing Interface (d) Application Programming Interlink
14. Any changes made in the values of the record should be saved by the command
(a) Save (b) Save As (c) Commit (d) Oblige
15. Identify the package manager for Python packages, or modules.
(a) Matplotlib (b) PIP (c) plt.show() (d) python package

II. Answer Any 6 for the following questions:**6 x 2 = 12**

16. Differentiate interface and implementation.
17. How Python represents the private and protected Access specifiers?
18. Define Pseudo code.
19. What are the different modes that can be used to test Python Program ?
20. Write note on range () in loop.
21. What is class?
22. Differentiate Unique and Primary Key constraint.
23. What is CSV File?
24. What will be the output of the following code?

```
list = [2**x for x in range(5)]
print(list)
```

III. Answer Any 6 for the following questions:**6 x 3 = 18**

25. Differentiate pure and impure function.
26. Differentiate Concrete data type and abstract datatype.
27. Differentiate ceil() and floor() function?
28. Write a note on different types of DBMS users.
29. What is MinGW? What is its use?
30. What is the difference between the write mode and append mode.
31. What is SQLite? What is its advantage?
32. Write any three uses of data visualization.
33. Write a Python code to check whether a given year is leap year or not.

IV. Answer the questions:**5 x 5 = 25**

34. (a) Write any five benefits in using modular programming (or)
(b) List the characteristics of an algorithm.
35. (a) Explain input() and print() functions with examples. (or)
(b) Write a detail note on for loop
36. Explain the following built-in functions.
(i) id() (ii) chr() (iii) round() (iv) type() (v) pow() (or)
What are the different ways to insert an element in a list. Explain with suitable example.
37. (a) Explain the different set operations supported by python with suitable example (or)
(b) Explain the different types of data model.
38. (a) Differentiate DBMS and RDBMS (or)
(b) Tabulate the different mode with its meaning.

12 - Computer Science - Page 2

I. Choose the correct answer:

- 1) Which one of the following is a pure function?
a) ☒ str len () b) Random c) Date d) All of these
- 2) To process of subdividing a computer program into separate subprogram is called _____ programming.
a) ☒ modular b) sequential c) structured d) oop
- 3) To execute python script press _____ key.
a) F2 b) ☒ F5 c) F7 d) F9
- 4) The typical amount of indentation for python is _____ spaces.
a) 7 b) 4 c) 8 d) 3
- 5) Which statement is generally used as placeholder?
a) ☒ continue b) break c) pass d) goto
- 6) _____ keyword is used to exit a function block.
a) def b) ☒ return c) break d) goto
- 7) Let listn = [3, 6, 9, 12, 15], then print (list [-2]) will give the result _____.
a) 6 b) 12 c) 9 d) 15
- 8) A tuple is also known as _____.
a) table b) row c) attribute d) field
- 9) Which command is used to change the structure of the table?
a) SELECT b) MODIFY c) ☒ ALTER d) ORDER BY
- 10) By default "skip initial space" has a value _____.
a) true b) false c) 4 d) 7
- 11) Making some changes in the data of the existing file or adding more data is called _____.
a) ☒ Editing b) Appending c) Modification d) Correction
- 12) Which modules allows python to interface with the windows operating system?
a) os b) sys c) csv d) getopt
- 13) Which clause avoid the duplicate?
a) ☒ DISTINCT b) REMOVE c) WHERE d) GROUP BY
- 14) _____ is a management software used for installing python package.
a) matplotlib lib b) ☒ pip c) pyplot d) plt.show()
- 15) Creating object to a class is known as _____.
a) construction b) ☒ instantiation c) initialisation d) creation

PART - B

II. Answer ANY SIX from the following questions.

6×2=12

Qn.no. 24 is compulsory.

- 16) ☒ What is subroutine?
- 17) ☒ What is a pair? Give example.
- 18) ☒ What is a token? List the tokens.
- 19) What is a loop? What are the types of loops?
- 20) ☒ What is base condition in recursive function?

- 21) How will you create constructor in python? Give example.
 22) What is normalisation?
 23) What is the use of write row () and write rows () methods.
 24) Differentiate Compiler and Interpreter.

PART - C**III. Answer ANY SIX from the following questions.****6×3=18****Qn.no. 33 is compulsory.**

- 25) List the characteristics of algorithm.
 26) What is a literal? What are the types of literals in python?
 27) a) Write a python code to print the following output:

```

A
A B
A B C
A B C D
A B C D E
  
```

(OR)

- b) Differentiate del and clear () in dictionary with example.
 28) What are the rules for "global" keyword?
 29) What is the use of format() function? Give example.
 30) Explain Cartesian product with an example.
 31) Write a python code to read a csv file with the default delimiter (,) comma.
 32) List the types visualisation in matplotlib.
 33) What is the use of 'SAVE POINT' command?

PART - D**IV. Answer the following questions:****5×5=25**

- 34) a) Write notes on Binary search with suitable example.

(OR)

- b) What is data abstraction? How abstraction is implemented? Explain with an example.

- 35) a) Describe in detail about the script mode programming in python.

(OR)

- b) Explain the following built-in-functions (i) abs () (ii) bin () (iii) chr ()
 (iv) type () (v) pow ().

- 36) a) Explain the set operators with suitable example.

(OR)

- b) Write a python program to illustrate the private and public variables and Explain.

- 37) a) Write notes on the different types of constraints and their functions with suitable examples. **(OR)**

- b) Tabulate the different mode to open a python file with its meaning.

- 38) a) Explain each phrase (word) the following command.

python <file name.py> -i <c++ file name without cpp extension>

(OR)

- b) Explain the various buttons and their uses in matplotlib window.