

RAJYEARLY EXAMINATION - 2019

COMPUTER SCIENCE

Marks: 70

PART - I

Note: All questions are compulsory.

15 x 1 = 15

[MCQs] Choose the most suitable answer from the given four alternatives and write the option code and the corresponding answer.

The values which are passed in a function definition are called

- (a) Arguments (b) Subroutines (c) Function (d) Function Definition

The datatype whose representation is always a- coded

- (a) Boolean datatype (b) Derived datatype
- (c) Concrete datatype (d) Abstract datatype

Which of the following is used in programming languages to map the variable and object?

In dynamic programming, the technique of storing the previously calculated values is called

- (a) Memoizing value property (b) Storing value property (c) Numerization (d) Mapping

Which statement is used to skip the remaining part of a loop and start with next iteration?

- (a) break (b) continue (c) return (d) goto

Evaluate the following number and write the output
x = 17.4

www.zaalstudy.in (a) 17 (b) - www.zaalstudy.in (c) -38 (d) www.zaalstudy.in

During strings with triple-quotes always creating

- (a) Single line string (b) Multiple strings
- (c) Double line strings (d) Multiple strings

Which of the following statement is not correct?

- (a) The extend() function is used in tuple to add elements in a list.
- (b) The append() function is used to add an element.
- (c) A tuple is immutable. (d) A list is mutable.

The process of creating an object is called as

- (a) Constructor (b) Destructor (c) Initialize (d) Initialization

Relational database model was first proposed by

- (a) EE Codd (b) HF Codd (c) EF Codd (d) GT Codd

The clause used to sort data in a database

- (a) SORT BY (b) GROUP BY (c) ORDER BY (d) SELECT

Importing C++ program in a Python program is called

- (a) Wrapping (b) Downloading (c) Interconnecting (d) Parsing

The most commonly used statement in SQL is

- (a) cursor (b) current (c) execute (d) select

Identify the package manager for Python packages or modules

- (a) pip (b) PIP (c) pip-tools (d) Python package

PART - II

Answer any six questions, in which question number 24 is compulsory

3 x 2 = 6

What are variables?

What is searching? Give an example.

What does mean on users?

21. Write a program to print the following:

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- 24. What are the main advantages of Python?
- 25. What will be the output of the following Python Code?

```

a=10
b=20
print(a)

```
- 26. How will you access the elements in reverse order?
- 27. Differentiate Python and C++.
- 28. Define Data Visualization.

PART - III

Answer any six questions in which question number 33 is compulsory. (5 x 2 = 10)

- 29. Why access control is required?
- 30. List the difference between break and continue statements.
- 31. What is the use of format()? Give an example.
- 32. What are the difference between List and Dictionary?
- 33. Write a Python program to check and print the given number is odd or even using class.
- 34. What is a constraint? Write short notes on primary key constraint.
- 35. Write a note on open() function of Python. What is the difference between the two methods?
- 36. What is SQLite? What is its advantage?
 Write any three uses of data visualization.

PART - IV

Answer all the questions. (5 x 7 = 35)

- 37. (a) Write any five characteristics of Module. (OR)
- (b) Write any five characteristics of Algorithm.
- 38. (a) Explain the various operators in Python. (OR)
- (b) Write a code to print and else statement with suitable example.
- 39. (a) Explain the scope of variable with example in Python. (OR)
- (b) Explain associating operators in Python with suitable example.
- 40. (a) What is the purpose of range() in Python? Explain with an example. (OR)
- (b) Explain the different types of data mode.
- 41. (a) Consider the following student table. Write SQL commands to the questions (10)

Roll No.	Name	Group
1001	Ganesh	A1
1002	Rama	A2
1003	Mani	B1
1004	Ravi	A1
1005	Thiruk	A2
1006	Geetha	B1
1007	Latha	A1
1008	Ravi	A2
1009	Ravi	B1

- (i) To display the details of all students in ascending order of name.
- (ii) To display all students in A1 group.
- (iii) To display the details of all students who are in A1 group. (OR)
- (iv) To remove students who are in A1 group. (OR)
- (v) Select roll no. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100.
- 42. Write the Python commands for the following based on above table.
- (i) To count all elements in the table. (OR) To find total weight.
- (ii) To get average marks in the table. (OR) To find max.
- (iii) To print first 5 students in ascending order.