

SECOND REVISION EXAMINATION - FEBRUARY 2023

COMPUTER SCIENCE

Reg.No

Marks : 90

12 - Std

Time - 3.00 Hrs

PART-I

15 x 1 = 15

I Choose the correct Answer

1. Which of the following defines what an object can do?
 (a) Operating System (b) Compiler (c) Interface (d) Interpreter
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 (d) Object oriented Programming
 (c) Event Driven Programming
4. The complexity of linear search algorithm is
 (a) $O(n)$ (b) $O(\log n)$ (c) $O(n^2)$ (d) $O(n \log n)$
5. Which of the following character is used to give comments in Python Program?
 (a) # (b) & (c) @ (d) \$ 146 same
6. 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
7. What is the output of the following snippet?

```
T=0
while T:
    print(True)
    break
```

```
T=1
while T:
    print(True)
    break
```

→ o/p: True

 (a) False (b) True (c) 0 (d) no output
8. 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
9. The keys in Python, dictionary is specified by
 (a) = (b) ; (c) + (d) :
10. Which of the following method is automatically executed when an object is created?
 (a) `__object__()` (b) `__del__()` (c) `__func__()` (d) `__init__()`
11. Who is called Father of Relational Database from the following?
 (a) Chris Date (b) Hugh Darween (c) Edgar Frank Codd (d) Edgar Frank Cadd
12. which class of csv module is used to read the csv file with quotes, by registering new dialects?
 (a) `csv.register_dialect()` (b) `csv.reader()` (c) `csv.writer()` (d) `csv.dialect()`
13. The expansion of API is
 (a) Application Programming Interpreter (b) Application Programming Interface
 (c) Application Performing Interface (d) Application Programming Interlink
14. The most commonly used statement in SQL is
 (a) cursor (b) select (c) execute (d) commit
15. Which key is used to run the module?
 (a) F6 (b) F4 (c) F3 (d) F5

PART-II

6 x 2 = 12

II Answer any six of the following questions, Q.No 24 is compulsory

16. Write the inference you get from X:=(78)
17. What is a literal? Explain the types of literals?
18. What is function? Write the different types of function.
19. What are the advantages of Tuples over a list?

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20. How will you create constructor in Python?
21. What is data consistency?
22. What is the difference between SQL and MySQL?
23. Mention the default modes of the File.
24. Which method is used to fetch all rows from the database table?

PART-III

6 x 3 = 18

III Answer any six of the following questions, Q.No 33 is compulsory

25. What are the different ways to access the elements of a list. Give example. *→ 2nd LN*
26. Write a note on Asymptotic notation
27. Using if..else..elif statement write a suitable program to display largest of 3 numbers.
28. What is the purpose of range()? Explain with an example.
29. Read the following details. Based on that write a python script to display department wise records
 database name :- organization.db
 Table name :- Employee
 Columns in the table :- Eno, EmpName, Esal, Dept
30. Write the use of Savepoint command with an example.
31. Write the coding for the following:
 a. To Install PIP in your PC.
 b. To Check the version of PIP installed in your PC.
 c. To list the packages in your system.
32. What is the difference between the write mode and append mode.
33. Write the output

```
str1="ABCDE"
str2="ate"
for i in str1:
    print((i+str2),end='\t')
```

Ref

Pg. NO: 127

Ex. NO: E.11.4

Ans:

Aab Bate Cate Dote Eate

PART-IV

5 x 5 = 25

IV Explain the following questions

34. (a) List the characteristics of an algorithm. (OR)
 (b) Write a detail note on for loop
 35. (a) Explain the different types of function with an example. (OR)
 (b) Explain the following List functions *→ Pg. NO: 145*
 (a) copy() (b) count() (c) max() (d) sum() (e) reverse()
 36. (a) Explain the different operators in Relational algebra with suitable examples. (OR)
 (b) Consider the following employee table. Write SQL commands for the questions (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.
37. (a) Differentiate Excel file and CSV file (OR)
 (b) Write the syntax for getopt() and explain its arguments and return values
 38. (a) Explain in detail the types of pyplots using Matplotlib. (OR)
 (b) Write in brief about SQLite and the steps used to use it.

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