

Govt. Public Examination - 2024

COMPUTER SCIENCE - XII STD - ANSWER KEY

PART-I

1. c. Big O
2. c. Abstract data type
3. b. F5
4. a. Interface.
5. a. Access control
6. d. []
7. c. Instantiation
8. d. $x \% 4 == 0$
9. b. σ
10. a. [10, 20, 35, 40, 50]
11. b. Flat file
12. d. Select
13. a. 0134
14. d. Dashboard
15. d. Orderby.

PART - II

16. ABSTRACT DATA TYPE.

* ADT is a type of a class for objects whose behaviour is defined.

17. DIFFERENT OPERATORS IN PYTHON

* It represent computations, conditional matching in programming.

* Arithmetic, Logical, Assignment & Conditional

18. SEARCHING - TYPES

* Step by step procedure used to locate, specific data. Ex: Linear, Binary search.

19. DIFFERENT TYPES OF FUNCTIONS

→ User-defined function.

→ Built-in-function.

→ Lambda function.

→ Recursion function.

20. TYPES OF VISUALIZATION IN MATPLOTLIB.

✓ Line plot

✓ scatter plot

✓ Histogram

✓ Box plot

✓ pie chart.

21. HIERARCHICAL AND NETWORK DATA MODEL
 → Hierarchical Model, data is represented as a simple tree like structure form.
 → Parent-child relationship.
 → Network Model, extended form of Hierarchical data model.

22. CSV FILE.
 * Human readable text file.
 * number of fields, separated by commas.

23. FETCH ALL ROWS FROM DATABASE TABLES.
 ✓ Fetchall() method is used to fetch all rows.

24. POP() FUNCTION IN PYTHON.
 → Removes and returns the last element
 → from a python list by default.

25. PART-III

- PURE AND IMPURE FUNCTION.
 * Pure functions - have no side effects and always return the same output.
 * Impure functions - can have side effects and produce different outputs for the same input.

26. DIFFERENT WAYS TO ACCESS ELEMENTS OF A LIST.

- ✓ TO include an element at your desired position.
- ✓ Used to insert an element at any position of a list.

```
>>> mylist = [34, 98, 47, 'kanna', 'Leo', 'mani']
```

27. ASYMPTOTIC NOTATION.

Used to describe the running time of an algorithm.

28.

```
n1 = int(input("Enter the first no:"))
```

```
n2 = int(input("Enter the second no:"))
```

```
n3 = int(input("Enter the third no:"))
```

```
if (n1 >= n2) and (n1 >= n3):
```

```
    biggest = n1;
```

```
elif (n2 >= n1) and (n2 >= n3):
```

```
    biggest = n2
```

```
else:
```

```
    biggest = n3.
```

```
print("The biggest no between", n1, ", ", n2, ", " and ", n3, " is", biggest)
```

29. capitalize()

- ✓ It is built-in string function in python.
- ✓ Used to modify the case of the characters in a string.

✓ Swap case()

- ✓ Returns a copy of the string.

30. CONSTRUCTOR AND DESTRUCTOR

- They are defined with the __init__ method.

31. APPLICATIONS OF SCRIPTING LANGUAGE.

- * To automate certain tasks in a program.
- * Extracting information from a data set.

32. WHERE CLAUSE USING.

- It is used to filter records.

33. TCL COMMANDS IN SQL.

- * Transaction Control Language.

- * Used to manage transactions in a database.

- COMMIT

- ROLL BACK

- SAVE POINT.

PART - IV

34. DATA ABSTRACTION WITH EXAMPLES.

- It is supported by defining an abstract data type (ADT). Which is a collection of constructor and selectors.

35. SCOPE OF VARIABLES.

- Enclosed scope.
- Local scope.
- Global scope.
- Built-in scope.

36. PURPOSE OF RANGE FUNCTION.

- ✓ Generate series of values in python.

Syntax:

range (start value, end value, step value).

37. COMPONENTS OF SQL.

- DML - Data Manipulation Language.
- DDL - Data Definition Language.
- DCL - Data control Language.
- TCL - Transaction control Language.
- DQL - Data Query Language.

38. VARIOUS BUTTONS IN MATPLOTLIB.

- * Home, Forward / Backward, zoom, Save figure, Pan axis.

HOME BUTTON.

It will help once you have begun navigating your chart.

FORWARD / BACK BUTTONS.


These buttons can be used like the Forward and Backward in your browser.

PAN AXIS.

Cross looking buttons you to click it.

ZOOM

Zooming in will require a left click and drag.


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