

Vidya Vikas Mandal's
Ramacrisna Madeva Salgaocar Higher Secondary School
Margao Goa

Std: XII VOC – CT First Term Exam, October, 2024
Date:24/10/24 Subject : Software Technology

Duraton: 2 hr.
Marks:40

Instructions :

- i. All questions are compulsory
 - ii. There are four sections in this question paper(A,B,C&D)
 - iii. In section A there are 9 questions of 1 mark each.
 - iv. Section B contains 7 questions of 2 marks each.
 - v. Section C contains 3 questions of 3 marks each.
 - vi. Section D contains 3 question of 4 marks each. Answer any two
 - vii. Write the number of each question clearly on the answer book.
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SECTION A

Question numbers from 1 to 9 carry 1 mark each.

1. Which function returns true if the string is in uppercase?
2. Which character ends the function header ?
3. For `i in range(5,10):` , How many times will the loop be executed?
4. Given the list `L = [10, 20, 30, 40, 50]`, What would `L[2:4]` return?
5. Name the topology in which each node has point to point link to every other node.
6. Name the Signal that is in the form of "0" and "1".
7. Which type of network connects group of nearby corporate offices in a city?
8. What does `clear()` function returns in a dictionary.
9. What does `item()` function returns in a dictionary.

SECTION B

Question numbers from 10 to 16 carry 2 marks each.

10. Explain the dictionary method `len()` and give an example.
11. Explain giving example the addition of new element to an existing dictionary.
12. Explain `get()` method in dictionary with example .
13. Explain any two elements/components of data communication.
14. Write two differences between LAN and WAN.
15. How does half duplex mode differs from duplex or full duplex mode.
16. Write two advantages of computer network.

SECTION C

Question numbers from 17 to 19 carry 3 marks each.

17. Explain Peer to Peer Network.
18. With neat labeled diagram describe Ring Topology
19. Write python code using dictionaries to create a phonebook (name and phonenumber) . Input a name and display phonenumber from the phonebook if it exists.

SECTION D

Question numbers from 20 to 22 carry 4 marks each.(answer any two)

20. Write the python code to create two dictionaries classA and ClassB with RollNo and Name and join two dictionaries into one ,also print the merged dictionary.
21. Write a python code to create customer dictionary with their number & name and delete any particular customer using his /her number.
22. Write the python code to create employee dictionary input n employee number and names and display all information in ascending order based on their employee number .
