



OECS111

Reg. No.

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I Semester B.C.A. Degree Examination, May/June - 2022
COMPUTER SCIENCE (Open Elective)
Journey into Fundamentals and C Programming Concepts
(NEP Scheme - 2021 Onwards)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer any four questions from each part.

PART - A

Answer any Four questions. Each question carries 2 marks.

(4×2=8)

1. What is meant by Hardware and software?
2. Define the terms computer virus and antivirus.
3. What is binary number system?
4. Convert $(45)_{10} = ()_2$?
5. List the different types of operators in C.
6. List two differences between variable and constant.

PART - B

Answer any Four questions. Each question carries 5 marks.

(4×5=20)

7. Bring out the differences Assembler, interpreter and compiler. (5)
8. a. Define Algorithm and flowchart. (2)
b. Draw the different symbols of flowchart. (3)
9. What is meant by number system and explain different types of number systems. (5)
10. What are the steps involved to add/remove a file/folder using control panel. (5)
11. Write a short note on C-tokens. (5)
12. Define if statement and explain the various forms of if statement with syntax and example. (5)

[P.T.O.]



PART - C

Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. Explain about various, categories of computer languages with examples. (8)
 14. Convert the following :
 - a. $(10110110)_2 = ()_8$ and $()_{16}$ (4)
 - b. $(7A)_{16} = ()_2$ and $()_8$ (4)
 15. Define operating system and explain the features of operating system. (8)
 16. Explain the applications of windows in detail. (8)
 17. Explain the different data types available in C. (8)
 18. What is meant by loop and explain the different looping statements available in C-programing. (8)
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