UBITT104 - Paper-IV : Developing Programming Logic and Techniques

P. Pages : 1

2616

GUG/S/18/10071

Time : Three Hours

Max. Marks : 80

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagram and use supporting data wherever necessary.
3. Avoid vague answers and write specific points/answer related to question.

1. a) Write a note on: **8**
   i) Machine language   ii) Assembly language
   iii) High level language   iv) Fourth generation language.

    b) What are translators? Explain different types of translators. **8**

OR

    c) Explain different stages of compilation process. **8**

    d) Why it is important to know the characteristics of programming language before showing a problem? **8**

2. a) What is PDLC? Explain different stages of PDLC. **8**

    b) Write an algorithm and draw a flowchart to swap two number. **8**

OR

    c) What is Big O-Notation? Explain with example. **8**

    d) What is flowchart? Explain advantages & disadvantages of flowchart. **8**

Either

3. a) Write an algorithm & draw a flowchart to find reverse and sum of digits multidigit numbers. **8**

    b) Explain Relational and logical operators used in high level language with example. **8**

OR

    c) What is difference between if-else and switch statements. Explain with suitable example. **8**

    d) Write an algorithm and draw a flowchart to check whether inputted number is even or odd. **8**

Either

4. a) What is the need for an array? Explain the types of arrays? **8**

    b) Define sorting. Write an algorithm for bubble sort. **8**

OR

    c) What is searching? Write the difference between sequential and Binary search. **8**

    d) Write a algorithm to add two 2-dimensional arrays. **8**

5. Solve all the question.

    a) Write note on: **4**
   i) Linker   ii) Loader

    b) Write a short note on problem analysis. **4**

    c) Explain character set. **4**

    d) Describe the concept of merging. **4**

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