# UBITT104 - Paper-IV : Developing Programming Logic and Techniques

P. Pages : 1

Time : Three Hours

*1158*

**GUG/S/23/10913**

Max. Marks : 80

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Notes :
1. All Questions are compulsory and carry equal marks.
2. Draw neat and labelled diagrams wherever necessary.
3. Avoid vague answers and write answers relevant and specific to questions only.

**Either:**

**1.** a) What is Translator? What is need of Translator? Describe any one translator in detail. **8**

b) Write a note on Machine Language and Assembly Language. **8**

**OR**

c) Write a note on Linker and Loader. **8**

d) List and explain the characteristics of good programming language. **8**

**Either:**

**2.** a) What is algorithm? Give the advantages and disadvantages of algorithms. **8**

b) Write a note on problem analysis. **8**

**OR**

c) What is flowchart? Explain various symbols used in flowchart. **8**

d) What is Big-O-Notation? Explain. **8**

**Either:**

**3.** a) Define Data Type? What is the role of Data Type? **8**

b) Write an algorithm to check given number is odd or even. **8**

**OR**

c) Explain the concept of keywords and Identifier in detail. **8**

d) Write an algorithm to find factorial of a number. **8**

**Either:**

**4.** a) What is array? Explain one dimensional array in detail. **8**

b) Write an algorithm to insert an element in array. **8**

**OR**

c) Explain two dimensional array in detail. **8**

d) Write an algorithm to search an element in a array. **8**

**5.** Attempt all the questions.

a) Explain Interpreter in detail. **4**

b) Explain Process Analysis in detail. **4**

c) Write a short note on Exit and Continue. **4**

d) List and explain various operations performed on array in short. **4**

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