

B.C.A.- I CBCS Pattern Semester-I
UBCAT104 - Paper-IV : Programming Tools and Techniques

P. Pages : 2

Time : Three Hours



GUG/W/23/11746

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 whenever necessary.
 3. Avoid vague answer and write specific answer related to question.

Either:

1. a) What is translator? Explain the need of translator in detail. 8
- b) List and explain the characteristics of good programming language. 8

OR

- c) Differentiate between compiler & interpreter. 8
- d) Explain high level language in brief. 8

Either:

2. a) Explain conceptual development of solution in detail. 8
- b) Describe time and space complexity of an algorithm. 8

OR

- c) Explain advantages and disadvantages of flow chart. 8
- d) Write an algorithm and draw flow chart to display area of circle. 8

Either:

3. a) What is character set? Explain. 8
- b) Explain keyword and Identifier in detail. 8

OR

- c) Explain Big-o notation in detail. 8
- d) Differentiate between Algorithm and Pseudo code. 8

Either:

4. a) Define array. Explain types of array in detail. 8
- b) Write an algorithm to demonstrate sequential search. 8

OR

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| c) | What do you mean by modular programming? Explain feature of modular programming. | 8 |
| d) | Explain two dimensional array in detail. | 8 |
| 5. | a) Explain Assembler in short. | 2 |
| | b) Write a short note on problem Analysis. | 2 |
| | c) Explain type of Data types in short. | 2 |
| | d) Write a short note on one dimensional array. | 2 |
