

B.C.A.- II CBCS Pattern Semester-III  
**UBCAT304 - Paper-IV : System Analysis & Design**

P. Pages : 2

Time : Three Hours



**GUG/W/23/11760**

Max. Marks : 40

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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 answers related to question.

**Either**

1. a) What is system ? What are the elements of system. 4
- b) Explain system development life cycle. 4

**OR**

- c) List various duties to be performed by system analyst. 4
- d) State various advantages and disadvantages of SOLC prototyping. 4

**Either**

2. a) Write a note on initial investigation phase. 4
- b) Differentiate between structured and unstructured interview. 4

**OR**

- c) Explain the following : 4
  - i) On site observation
  - ii) Record Inspection
- d) Explain DFD with its components and features. 4

**Either**

3. a) What are the types of process design ? Explain. 4
- b) Explain the following 4
  - i) One time cost
  - ii) Recurring cost

**OR**

- c) List the various steps involved in system design. 4
- d) Explain audit considerations. 4

**Either**

4. a) What are the factors that affects the organization of a file. 4

b) What is testing ? Why it is needed ? 4

**OR**

c) What are the different phases of system documentation. 4

d) What is the role of data processing auditor. 4

**5.** Solve all the questions.

a) Explain physical or abstract system. 2

b) Explain any one tool for structured analysis. 2

c) What are the basic principles to design a form. 2

d) What are the levels of Quality Assurance. 2

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