

Roll No 70217

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**BCA-304**  
**B.C.A. III Year Examination, 2016**

Paper-IV

(Systems Analysis and Design)

Time : Three Hours  
Maximum Marks : 100

**PART - A ( खण्ड-अ )** [Marks : 20

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर पचास शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

**PART - B ( खण्ड-ब )** [Marks : 50

Answer *five* questions (250 words each).

Selecting *one* from each unit. All questions carry equal marks.

प्रत्येक इकाई से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए।

प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

**PART - C ( खण्ड-स )** [Marks : 30

Answer any *two* questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

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P.T.O.

**PART-A**

**UNIT-I**

1. Define system.
2. What are the elements of system ?

**UNIT-II**

3. What are the various types of feasibility study ?
4. What is the utility of system documentation ?

**UNIT-III**

5. Write any four rules for drawing a DFD which should be strictly followed ?

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6. What are the tools of structured analysis ?

**UNIT-IV**

7. Define audit trail.
8. What are the various types of testing ?

**UNIT-V**

9. What is the need of recovery planning ?
10. Define system security.

**PART-B**

**UNIT - I**

2. What is system analysis ? What are the types of system ?

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**P.T.O.**

3. Compare and contrast between system, subsystem, Black Box System.

#### UNIT - II

4. What is the role of system analyst in project completion? Also explain the various interpersonal and technical skills?
5. When does an analyst terminate a project? How does it tie in with post implementation? Explain.

#### UNIT - III

6. What is the need of file organization in system. Explain any one with an example.

7. Differentiate between :

1. Questionnaire and interviewing.
2. Logical and physical view of data.

#### UNIT - IV

8. What is the need of quality assurance also list various quality factors?
9. Write short note on :
1. Project scheduling
  2. Quality Assurance

**UNIT - V**

10. List and briefly explain disaster management.
11. What is the need of security and recovery in system development.

**PART-C**

**UNIT - I**

12. What is the need of system approach ? how it is related with schematic and static system model ?

**UNIT - II**

13. Describe the major phases in the system development life cycle. What are the purposes of the system request and the feasibility analysis ? How are they used in the project selection process ?

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**UNIT - III**

14. "Anushka car rental services" rents car to different customers. They have at present 20 different types of passenger cars. They buy cars and get it checked by the depot before adding add add to its fleet. The cars not fit for this purpose and sold out. The customers approach their main office for rental cars. Main office informs the depot accordingly, the depot take care of services of vehicles.

Draw a DFD for the above problem.

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*P.T.O.*

#### **UNIT - IV**

- 15.** What is the criteria for the selection of Hardware and software ? What are the different types of maintenance ?

Explain.

#### **UNIT - V**

- 16.** Explain the relevance of Ethics in system development ?

Explain.