BCA-304

B.C.A. Third Year Examination, 2017

Paper–IV

(Systems Analysis and Design)

Time Allowed : 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 50 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 में 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।

PART-A

1.   Answer the following questions :

   (i)   Define Black Box System.

   (ii)   What are the basic elements of system?

   (iii) Define SDLC.

   (iv)   What do you mean by system development?

   (v)   What are the Tools of structured analysis?

   (vi)   Differentiate between Logical and Physical view of data.

   (vii) Define Testing.

   (viii) What is the purpose of Audit trail?

   (ix)   What is System security?

   (x)   Explain the purpose of Recovery planning?

PART-B

UNIT-I

2. What are the different types of system? Explain.

3. Write short notes on the following :

   (a) Subsystem

   (b) System analysis.

UNIT-II

4. Differentiate between :

   (a) Linear approach and Throwaway Prototyping approach.

   (b) System Analysis and System Design.

5. What is the role of system analyst? Explain Interpersonal skills.

UNIT-III

6. Differentiate between :

   (a) Decision Tree and Decision Table.

   (b) Structured English and Data Dictionary.

7. Define the relevance of file organization. Explain its methods.

UNIT-IV

8. Define Testing. What are the various approaches for an acceptance testing?

9. Define conversion. How change management is more important than any other part of SDLC Elaborate with relevant examples.

UNIT–V

10. What are the threats to System Security? Explain.

11. Write in brief about Ethics in System Development.

PART–C

12. Define System. What do you understand by behaviour of the system. Also explain, Is there any relationship between boundary and feedback?

13. What are the various phases of SDLC. Explain.

14. Draw a detailed DFD for Hospital Management.

15. What are the basic steps in managing organizational change? Suppose you are installing a new accounting package in your small business. What conversion strategy would you use? Develop a conversion plan.

16. What are the threats to system security. Give an overview of Disaster/Recovery planning. How system can be protected from intruders?

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