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Roll No. ....

BCA-VI Sem.

**18027**

**B.C.A. Examination, June-2023**

**INFORMATION SYSTEM ANALYSIS  
DESIGN AND IMPLEMENTATION**

**(BCA-602)**

*Time : 3 Hours*

*[Maximum Marks : 75*

**Note :** Attempt questions from *all* sections as per instructions.

**Section-A**

**(Very Short Answer Type Questions)**

**Note :** Attempt *all* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.  $5 \times 3 = 15$

1. Why is feasibility analysis necessary before designing a system ?
2. What is difference between a physical and a logical DFD ?
3. What is fact findings ? How to do fact finding ?
4. What do you mean by Joint Application Design (JAD) ?

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5. Explain the term inheritance in an object-oriented system.

**Section-B**

**( Short Answer Type Questions)**

**Note :** Attempt any *two* questions out of the following three questions. Each question carries  $7\frac{1}{2}$  marks. Short answer is required not exceeding 200 words.  $2 \times 7\frac{1}{2} = 15$

6. Construct an Entity Relationship diagram for an airlines reservation system.
7. Differentiate between system analysis and System Design. What are the issues and constraints to be taken care of while designing a software product ?
8. What is meant by the term CASE ? Describe the various components and tools of CASE.

**Section-C**

**( Long Answer Type Questions)**

**Note :** Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.  $3 \times 15 = 30$

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9. Explain the advantage and disadvantages of the following software development Models :
- (i) Waterfall
  - (ii) Prototype
  - (iii) Spiral
10. Prepare SRS for a 'Library Information System' make necessary assumptions.
11. (a) Explain the term 'User Manual' and 'System Documentation'.
- (b) What do you understand by "User Interface"? What are the basic guidelines to design user interface?
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12. (a) What is MIS ? Explain any two functions of MIS in a business organization.
- (b) What is risk analysis ? Explain quantitative risk analysis.
13. Write short notes on the following :
- (a) DSS
  - (b) Software Maintenance
  - (c) ISO
  - (d) Software Documentation
  - (e) Testing