

(i) Printed Pages: 2

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(ii) Questions : 9

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Exam. Code : 

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**Bachelor of Computer Applications 3<sup>rd</sup> Semester**

(1129)

**INFORMATION SYSTEM DESIGN AND IMPLEMENTATION**

**Paper—BCA-16-303**

**Time Allowed : Three Hours]**

**[Maximum Marks : 65**

**Note :—** The students are required to attempt *one* question from each Section (A to D) and the compulsory question.

**SECTION—A**

1. What is the software development life cycle ? Explain its steps in detail. 13
2. (a) Elaborate the technical and interpersonal skills required for system analysts. 7
- (b) Differentiate between open and closed system. 6

**SECTION—B**

3. (a) Explain on the top-down approach to system planning—what it means, its uses and its implication for system development. 7
- (b) “A data dictionary is a structured repository of data about data.” Discuss. 6
4. (a) List and illustrate the primary uses and elements of a decision table. 7
- (b) Why is it difficult to determine user requirements ? Illustrate. 6

### SECTION—C

5. (a) Elaborate on the steps taken in system testing that lead to the user's acceptance of the system. 7  
(b) Distinguish between logical and physical design of a system. 6
6. (a) What makes up a feasibility report ? How would you change it ? Explain. 7  
(b) What levels of quality assurance must a system meet ? Explain. 6

### SECTION—D

7. (a) Explain the major activities in conversion. Which activity is the most important ? Why ? 7  
(b) Discuss the sources of information used in evaluating hardware and software. Which source do you consider the most reliable ? Why ? 6
8. (a) Briefly explain the procedure and make-up of the post-implementation review. 7  
(b) Elaborate on the major phases in software selection. 6

### (Compulsory Question)

9. (a) What are the various elements of system environment ? 3  
(b) Differentiate between reliability and security. 2  
(c) What are the primary steps in interviewing ? 2  
(d) What is rapport ? 2  
(e) Differentiate between HIPO and IPO. 2  
(f) What is the FM concept ? 2