

(4)

Unit - IV

8. Explain various threats and challenges to system security. Also write counter measures to handle system security. 7½
9. Write an essay on ethics to be followed in system development. 7½

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Roll No. \_\_\_\_\_

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B.A./B.Sc. (Part-II) Examination, 2015

(New Syllabus)

Computer Application

First Paper

(System Analysis & Development)

*Time Allowed : Three Hours ] [ Maximum Marks : 50*

Note : Attempt five questions in all. Question No. 1 is compulsory. Attempt one question from each of the four units.

1. (a) Distinguish between open and closed system. 2×10=20
- (b) Discuss the primary characteristics of physical system.
- (c) Elaborate the difference between analysis and design.
- (d) Differentiate between logical and physical design of a system.

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- (e) Explain the utility of initial investigation in system planning.
- (f) By giving examples explain the term data dictionary.
- (g) Write a short note on Black-box testing.
- (h) Differentiate between verification and validation.
- (i) Describe the need of initial investigation.
- (j) Explain the elements of system.

Unit-I

- 2. (a) By defining system elaborate the System concept along with characteristics of a system. 4
- (b) Describe the multifaceted role of analyst during the system development process. 3½
- 3. Give the step by step elaboration of System Development Life Cycle (SDLC) with Special emphasis on feasibility study. Also describe the types of feasibility study with examples. 7½

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**(3)**

Unit-II

- 4. Discuss the importance of Planning phase while developing any software system. Also elaborate the dimensions of planning. Does planning phase depends on the initial investigation? Justify your answer. 7½
- 5. (a) Explain what kind of information is needed while developing any software system. Elaborate various tools and techniques for information gathering. 6
- (b) Write a short note on - Data Flow diagram (DFD). 1½

Unit - III

- 6. Explain the relative advantages and disadvantages of Unit Testing and Integration testing. Also describe why testing is required before software implementation. 7½
- 7. (a) Describe various levels of Quality Assurance in relation to software project. 5
- (b) Explain Alpha testing. 2½

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**P.T.O.**