

Question Paper Code : 3029

B.Sc. (Part-I) Examination, 2017

(New Syllabus)

COMPUTER SCIENCE

[Paper Third]

(Elements of System Analysis & Design)

Time : Three Hours

Maximum Marks : 50

Note : Answer **five** questions in all. Question **No.1** is **compulsory**. Besides this, attempt **One** question from each of the **four** units. Electronic Calculators are allowed.

1. Give short answer of the following : [2×10=20]

- (a) Define system.
- (b) What is difference between data and information ?
- (c) Processing in the element of system. Explain the role of processing.

S-534/700

(1)

[P.T.O.]

- (d) Explain useful life of the system.
- (e) What is the difference between open system and closed system ?
- (f) Write the responsibilities of system analyst.
- (g) In what condition maintenance is required for software ?
- (h) Define System Reliability.
- (i) Write the importance of modeling.
- (j) Explain logical design.

UNIT-I

- 2. (a) Explain the classification of system and its characteristics. [5]
- (b) List the advantages of using system analysis. [2½]
- 3. (a) Explain a framework for information architecture. [5]
- (b) Write Common characteristics of system. [2½]

S-534/700

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UNIT-II

- 4. (a) Explain Principles of System Development. [2½]
- (b) Explain System Development Methodology. [5]
- 5. Explain the importance of following in SDLC : [7½]
 - (a) System Planning
 - (b) System Analysis
 - (c) System Design

UNIT-III

- 6. (a) Explain the various activities performed during project initiation. [2½]
- (b) Define operational feasibility and its importance. [5]
- 7. (a) Explain the various activities performed during project planning. [2½]
- (b) Define Technical feasibility and its importance. [5]

S-534/700

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[P.T.O.]

UNIT-IV

8. What is importance of quality assurance ? Explain how it should be implemented ? [7½]
9. What is importance of system design ? Explain various activities in the design phase of SDLC. [7½]

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