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B.Tech. (Sem. - 5th)

SYSTEM ANALYSIS AND DESIGN

SUBJECT CODE : CS - 301

Paper ID : [A0464]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

- a) List properties of real time systems?
- b) What are the various types of systems?
- c) What is the use of documentation?
- d) What is the importance of feasibility study?
- e) What do you mean by module coupling?
- f) What is the use of DFD?
- g) Define audit trail.
- h) What is the primary goal of system testing?
- i) How can you estimate the size of a project?
- j) What is the role of system Analyst?

Section - B

(4 × 5 = 20)

Q2) Discuss different tools and techniques used for Cost-Benefit and analysis?

Q3) List and explain three principles in the design of outputs and also tell five types of outputs.

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Q4) Discuss the objectives of modular software design? What are the effects of modular cohesion?

Q5) List and discuss salient features of object oriented system design.

Q6) Explain the various fact gathering techniques.

Section - C

(2 × 10 = 20)

Q7) Explain system development life cycle in detail with the help of neat and clean diagram?

Q8) (a) List and explain different methods applied for system evaluation and performance?

(b) Discuss different types of threats to computer system and control measures which are applied to deal them?

Q9) Differentiate the following :

(a) Alpha testing & beta testing.

(b) White box testing & black box testing.

(c) Logical and physical design.
