

Paper System Analysis and Design
(CS-301, Dec 2005)

Time: 3 Hrs

Max. Marks: 60

Note: Section A is compulsory. Attempt any four questions from Section B and any two from Section-C.

Section-A

1. (a) What are the principles of a successful system?
(b) What are the various types of systems?
(c) How cost benefit analysis is useful?
(d) What is the purpose of documentation?
(e) What do you mean by module coupling?
(f) Compare and contrast top down and bottom up design approaches?
(g) Define audit trail.
(h) Why reference manuals can not replace the formal training of the users of a new system?
(i) Why do we test systems?
(j) What is the role of system Analyst?

Section-B

2. "Feasibility study in the compressed capsule version of the entire system to be developed". Comment on this.
3. What are the goals of input design?
4. Discuss the objectives of modular software design? What are the effects of modular cohesion?
5. Discuss the reasons for improvement using object oriented design.
6. What are the various types of output reports and queries are to be made available to railway reservation system?

Section-C

7. What is the system development life cycle? Explain in detail. Show diagrammatically also.
8. (a) What is the difference between logical and physical design?
(b) Discuss the following tools
 - (i) DFD
 - (ii) System flow chart
9. (a) What technique can be used to evaluate the performance of any designed system?
(b) What are the major threats to system security? How physical and operational security provided to files?