

**Bachelor of Computer Applications
Annual Examinations – 2006**

**Paper BCAD – 303
System Analysis and Design**

Time allowed: Three hours

Maximum Marks: 100

SECTION – I

Marks

Q1. Attempt all the questions given below:

2X10=20

- i) Transaction processing system includes _____ applications.
- ii) Results of implementation phase are _____ and _____.
- iii) DFD is a representation of various _____ and _____ and _____ in each process.
- iv) CMM stands for _____.
- v) Cohesion is the degree to which a module _____.
- vi) Nassi_shneiderman chart is an alternative to either _____ or _____.
- vii) The decision table is made up of _____ sections.
- viii) ERD is graphical _____ tool.
- ix) Economic Feasibility determines the _____ and _____ of the proposed system.
- x) Coupling is a measure of _____ among modules in a program structure.

SECTION – II

Q2. Answer any five questions.

5X6=30

- i) “Feedback often results in enhancement to meet the user’s requirements. Give the argument to support the statement.
- ii) What is the purpose of preliminary investigation?
- iii) In which of the development phases the solution of the problem starts emerging?
- iv) What is data dictionary? Discuss its importance in structural analysis.
- v) Explain the difference between the following terms:
 - a) Physical and logical DFD
 - b) Data store and data flow
- vi) What is the need of system control? Explain.
- vii) Define software matrices. List product matrices. What do you understand by the term cyclomatic complexity?

SECTION – III

Q3. Attempt any five questions.

5X10=50

- i) Describe various types of systems.
- ii) What are necessary qualifications of a system analyst and why?
- iii) What are different types of feasibility?
- iv) Discuss various process specification tools.
- v) Explain types of coupling and cohesion.
- vi) Discuss earned value analysis.