Punjab Technical University
Master of Computer Application Examination

MCA 3rd Semester SYSTEM SOFTWARE AND DESIGN 2006

Time: Three hours maximum: 100marks

PART A Answer all questions (8*5=40 marks)

1. (a). What is system analysis and design? Explain. Or (b). Distinguish between testing and evaluation.

2. (a) Explain the need for cost and benefit analysis. Or (b) what steps do investigators doing the preliminary investigation take? For what purpose are they taken?

3. (a) List the primary uses of a decision table. Or (b) explain the basic rules for drawing data flow diagrams.

4. (a). What is requirement determination? Explain. Or (b). List and explain the primary steps in interviewing.

5. (a). List and explain the various types of file. Or (b). Write short notes on database concepts.

6. (a). Explain the difference between sequential and direct access organizations. Or (b) List and explain the design objectives.

7. (a). Give the purpose of constructing HIPO diagrams. Or (b). What is assurance? Explain the various levels of assurance.

8. (a). What is the relational between conversion and system implementation? Explain. Or (b) List and explain about the financial factors.

PART B Answer all questions (5*12=60 marks)

9. (a). Explain in detail about the testing methods used to test project feasibility. Or (b) Discuss in detail about managing project review and selection.

10. (a). What elements comprise systems costs? What are the different categories of system costs? Explain. Or (b). Explain in detail about the strategies for cost/benefit comparison.

11. (a) Discuss in detail about the steps that should always be taken to develop and administer questionnaires. Or (b) how are data and processes described in a data dictionary? Explain briefly.

12. (a). What is system reliability? Discuss the approaches to system reliability. Which approach is preferred? Why?

Or
(b) Discuss about any two methods of file organization in detail.

13. (a) Describe the purpose and contents of a conversion plan. Or (b). Discuss about the various factors involved in evaluation of the software.