MCA–647	MCA-07/ PGDCA-06

M.C.A./P.G.D.C.A. DEGREE/DIPLOMA EXAMINATION – JUNE 2008.

First Year/Second Semester

INTRODUCTION TO SOFTWARE ENGINEERING

Time : 3 hours   Maximum marks : 60/75

Answer for 5 marks questions should not exceed
2 pages.

Answer for 10/15 marks questions should not exceed
5 pages.

PART A — (4 × 5 = 20)/(5 × 5 =25)

Candidates with enrolment number starting with A4 MCA and C5 MCA should answer any FOUR from Question 1 to 6 and all others should answer any FIVE from question 1 to 7 in Part A.

1.   Write the characteristics of software. Compare it with hardware.

2.   What are Software myths? Explain them.

3.   List the levels of CMM and explain them.

4.   How will you estimate and manage software risks?

5.   What are software metrics? Explain their need and computation techniques.

6.   Explain the object oriented analysis techniques.

7.   List the features of CASE tools and explain them.

PART B — (4 × 10 = 40)/(5 × 10 = 50)

Candidates with Enrolment Numbers starting with A4 BCA and C5 BCA should answer any FOUR from Question No 8 to 13 and all others should answer any FIVE from Question No 8 to 14 in Part B.

8.   Explain the waterfall model and prototype model.

9.   How will you recruit and manage people for software projects?

10.   List the steps involved in Software Configuration Management. Explain them.

11.   How will you maintain software quality through reviews?

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12.   What are cohesion and coupling? How will you use these concepts in design?

13.   Explain the software testing techniques.

14.   What is ISO? Explain the ISO standards for software quality.

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