

MAY 2013

**P/ID17455/RCE/PCAJ**

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Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL the questions.

ALL questions carry equal marks

1. (a) What are the umbrella activities of a software process?

Or

- (b) What are the characteristics of software requirement specification?

2. (a) Have a brief discussion on data modeling.

Or

- (b) Write the features of software design.

3. (a) Write short notes on software configuration management.

Or

- (b) What are the testing principles that a software Engineer must apply while performing the software testing?

4. (a) Enumerate the types of project plan.  
Or  
(b) What is meant by cyclomatic complexity?
5. (a) What are the advantages and disadvantages of size measure?  
Or  
(b) Explain in brief about software maintenance.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Explain the guidelines for data design.
7. Describe the prototyping approaches in software process.
8. Discuss in detail about the features of CASE repository.
9. Describe in detail about structural modeling.
10. Discuss in detail about the different design principles.
11. Explain the operation of Delphi method.
12. Discuss in detail about real time systems.
13. Discuss in detail about software testing strategies.