

S.No. 579

12PCA12

(For the candidates admitted from 2012-2013 onwards)

M.C.A. DEGREE EXAMINATION, NOVEMBER 2017.

Third Semester

SOFTWARE ENGINEERING AND TESTING

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Explain waterfall model with a neat diagram.

Or

- (b) What is an agile process? Give a note.

2. (a) List out the guidelines for gathering requirements for conducting a collaborative meeting.

Or

- (b) Define the term 'use case' and explain.

3. (a) What are the principles applicable to data design at component level? Give a note.

Or.

- (b) Write short notes on cohesion and coupling.

4. (a) Write about white box testing.

Or

- (b) Explain the term 'scenario testing'.

5. (a) Give short notes on functional system testing.

Or

- (b) Write a note on 'Beta Testing'.

PART B — (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Discuss on :

- (i) The incremental model
(ii) The RAD model.

Or

- (b) Describe Agile Models.

7. (a) Explain the software eliciting requirements.

Or

- (b) How to build analysis models? Explain.

8. (a) Explain the various design concepts.

Or

- (b) Discuss on class-based components.

9. (a) Explain the following :

- (i) Graph based testing
(ii) Equivalence partitioning
(iii) Boundary value analysis
(iv) Orthogonal array testing.

Or

- (b) State the importance of Integration testing. Explain with diagrams.

10. (a) Write about :

- (i) Recovery testing
(ii) Security testing
(iii) Stress testing
(iv) Performance testing.

Or

- (b) Illustrate the process for performance testing.