IV Semester M.C.A. Examination, June/July 2018
(CBCS)
COMPUTER SCIENCE
MCA 403T : Advanced Software Engineering

Time : 3 Hours  Max. Marks : 70

Instruction : Answer any five from Part – A and any four from Part – B.

PART – A

Answer any five questions :  (5x6=30)
1. Explain different agility principles. 6
2. Discuss Web application goals. 6
3. Explain clean room testing. 6
4. Explain the W5HH principle. 6
5. Discuss earned value analysis. 6
6. Explain RMMM plan. 6
7. Explain make/buy decision. 6
8. Explain process improvement. 6

PART – B

Answer any four questions.  (4x10=40)
9. Explain briefly extreme programming. 10
10. a) Discuss Web application design quality. 5
    b) Explain interface design of Web application. 5
11. Explain briefly Cocomo II model for estimation of software project. 10
12. a) Explain software risks. 4
    b) Discuss about reverse engineering. 6
13. Explain SPI process in detail. 10
14. Write short notes on :
    a) SCM process. 5
    b) Metrics for software quality. 5
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Instructions : 1) Part A : Answer any five questions.
2) Part B : Answer any four questions.

PART – A

Answer any five questions. (5x6=30)

1. What is agile process? With neat diagram explain extreme programming process.

2. Write a note on functional specification in clean room modeling.

3. Explain Bohem’s W5HH principles.

4. Discuss basic principles of project scheduling.

5. Describe CMMI capability levels.

6. Write a note on function point based metrics for requirement model.

7. What is software risk? Explain different categories of risk.

8. Write a note on four ‘P’s’ of project management.

PART – B

Answer any four questions : (4x10=40)

9. Explain design pyramid of web application.

10. Discuss in detail the software measurement approaches.


12. Describe in detail software process improvement activities.

13. With neat diagram explain software configuration management process.

14. Write short note on:
   a) Clean room testing. 5
   b) Object constraint language. 5
PART – A

Answer any five questions. \( (5 \times 6 = 30 \) )

1. Define Agility. Explain principles of Agility.
2. Explain cleanroom strategy.
3. What are the different approaches to the software sizing problem?
4. What are the ways of tracking the schedule?
5. Explain Risk monitoring and management.
6. Which are the critical success factors of Software Process Improvement?
7. Briefly explain the SCM process.
8. Explain object oriented Metrics.

PART – B

Answer any four questions. \( (4 \times 10 = 40) \)


10. Explain the formal specification languages:
    a) Object constraint language
    b) Z specification language.

11. a) How estimation is done for object oriented projects?
    b) Explain COCOMO II model.

12. a) Explain Software Reengineering process model.
    b) Explain forward engineering in detail.

13. Write short notes on:
    a) CMMI
    b) SPI frameworks.

14. With an algorithm explain the change management.