PG – 562

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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(CBCS)
COMPUTER SCIENCE
MCA 403 T : Advanced Software Engineering

Time : 3 Hours Max. Marks : 70

Instructions : 1) Part **A** : Answer **any five** questions.
2) Part **B** : Answer **any four** questions.

PART – A

Answer **any five** questions. **(5×6=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 : **(4×10=40)**

9. Explain design pyramid of web application.
10. Discuss in detail the software measurement approaches.
11. What is reverse engineering ? Explain process of reverse engineering.
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

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IV Semester M.C.A. Examination, June 2016
(CBCS)
COMPUTER SCIENCE
MCA – 403T : Advanced Software Engineering

Time : 3 Hours Max. Marks : 70

PART – A

Answer **any five** questions. **(5×6 = 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. **(4×10 = 40)**

9. Explain different components of the Design pyramid. **10**
10. Explain the formal specification languages :
    a) Object constraint language **5**
    b) Z specification language. **5**
11. a) How estimation is done for object oriented projects ? **4**
    b) Explain COCOMO II model. **6**
12. a) Explain Software Reengineering process model. **4**
    b) Explain forward engineering in detail. **6**
13. Write short notes on :
    a) CMMI **5**
    b) SPI frameworks. **5**
14. With an algorithm explain the change management. **10**