

67191-N

M.C.A. 2 Year Course 4th Semester (w.e.L. 2020-21)

(Re-appear) Examination, December 2022

ADVANCED SOFTWARE ENGINEERING

Paper- 21MCA24C1

Time allowed : 3 hours]

[Maximum marks : 80

Note : Question no. 1 is compulsory. Attempt four more questions selecting one question from each unit

1. Answer the following questions briefly: 8×2=16
  - (a) What is Clearroom Software Engineering?
  - (b) Describe CBSE process.
  - (c) What is web based application?
  - (d) What is daily scrum?
  - (e) Explain sprint in Agile.
  - (f) Who is Scrum master?
  - (g) Describe Scrum of scrums.
  - (h) Explain pipeline in DevOps.

Unit-1

2. (a) What is Aspect Oriented Software Development?  
Describe its uses and advantages with suitable examples. 10

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- (b) Explain Web Engineering process and its uses. 6
- 3 Explain the following briefly with suitable examples.
- (a) Web based system design and testing 6
- (b) Component based software development and its advantages 10

**Unit-II**

4. What is Agile? How it is useful and used? Explain its process, principles, values with suitable examples in detail. 16
5. Describe the following with examples. 16

- (a) Agile risk management
- (b) Backlog management
- (c) Extreme programming (XP)
- (d) Scrum principles and its working

**Unit-III**

6. (a) Explain Atern priciples with examples. 8, 8
- (b) Explain Agile metrics and their uses with examples.

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7. Explain the following with suitable examples: 8, 8
- (a) Agile control and its parameters
- (b) Scaling Agile and its uses

**Unit-IV**

8. What is DevOps? Explain its need, process and advantages with examples in detail. 16
9. Explain the following briefly with examples : 8, 8
- (a) AWS DevOps and its uses and automation tools
- (b) DevOps architecture and its workflow

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