

Roll No.

67191-N

**MCA 4th Semester (2 Yr. Course)
Examination – December, 2024**

ADVANCED SOFTWARE ENGINEERING

Paper : 21MCA24C1

Time : Three hours] [Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *four* more questions selecting *one* question from each Unit. Question No. 1 is *compulsory*.

1. Answer the following questions briefly : $8 \times 2 = 16$

- (a) What is software design ?
- (b) What are advantages of CBSE ?
- (c) What COTS myths ?
- (d) Explain working of scrum ?
- (e) Explain sprint cycle in Agile.
- (f) What is the role of Project owner and Scrum master ?

- (g) Explain principles of DevOps.
- (h) Describe AWS DevOps.

UNIT - I

- 2. (a) What is Agile software Engineering and Client/Server Software Engineering ? Describe their differences, uses and advantages with suitable examples. 10
- (b) Explain component based model and its principles and its uses. 6
- 3. Explain the following briefly with suitable examples.
- (a) Testing process for Web applications and its merits. 6
- (b) Aspect based software development and its uses. 10

UNIT - II

- 4. What is Scrum ? 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 and its advantages
- (b) Backlog management and its importance
- (c) Extreme programming (XP) and advantages
- (d) Agile principles and their working

UNIT – III

6. (a) Describe use and role of Agile for configuration management with examples. 8
- (b) Explain Scrum of Scrums and its uses, applications and advantages with examples. 8
7. Explain the following with suitable examples :
 - (a) Agile control and its parameters 8
 - (b) Atern principles and their uses. 8

UNIT – IV

8. Define pipeline and DevOps ? Explain their need, process and applications with examples in detail. 16
 9. Explain the following briefly with examples :
 - (a) DevOps and its architecture and applications. 8
 - (b) DevOps automation and its tools. 8
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