

Roll No.

67191-N

**MCA 4th Semester 2yr. Course
Examination – July, 2022**

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 five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Answer the following questions briefly : $2 \times 8 = 16$
- (a) What is Security Engineering ?
 - (b) Define CBSE process.
 - (c) What is web based application ?
 - (d) What is the need of daily serum ?
 - (e) Explain sprint cycle in Agile.
 - (f) What is the role of Project owner and Serum master ?

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- (g) Explain differences between Agile and DevOps.
- (h) Describe DevOps stakeholders.

UNIT – I

- 2. (a) What is Client/Server Software Engineering ? Describe its uses and advantages with suitable examples. 8
- (b) Explain component based model and its principles and its uses. 8

3. Explain the following briefly with suitable examples :

- (a) Testing for Web applications 6
- (b) Aspect based software development and its advantages 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

- (i) Agile risk management
- (ii) Backlog management
- (iii) Extreme programming (XP) advantages
- (iv) Agile principle and its working

UNIT – III

6. (a) Explain use and role of Agile for configuration management with examples. 8

(b) Describe Scrum of Scrums and its uses and advantages with examples. 8

7. Explain the following with suitable examples :

- (a) Agile control and its parameters. 8
- (b) Atern principles and its philosophy. 8

UNIT – IV

8. What is Azure DevOps ? Explain its need, process and advantages with examples in detail. 16

9. Explain the following briefly with examples :

- (a) DevOps and its uses and architecture 8
- (b) AWS DevOps and its automation tools 8