

CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

16/17MCA443

Fourth Semester MCA Degree Examination, June/July 2019 Software Architecture

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Define Software Architecture. Explain the common software architecture structure. (08 Marks)
b. What makes a good architecture? Explain the rule of thumb. (08 Marks)

OR

- 2 a. Explain in detail project life-cycle context. (08 Marks)
b. With neat diagram, explain the influence of stakeholder on the architect. (08 Marks)

Module-2

- 3 a. Explain the general scenario of the availability quality attribute. (08 Marks)
b. Explain the tactics for the quality attribute interoperability. (08 Marks)

OR

- 4 a. Explain the general scenario of modifiability quality attribute. (08 Marks)
b. Explain the tactics for the quality attribute testability. (08 Marks)

Module-3

- 5 a. Explain queuing model of performance for MVC. (08 Marks)
b. Describe quality attribute check lists, through experiments and Back-of-the Envelope Analysis. (08 Marks)

OR

- 6 a. Explain gathering ASR from Requirement document. (08 Marks)
b. Explain the categorization of business goals. (08 Marks)

Module-4

- 7 a. Explain the design strategy. (08 Marks)
b. Explain the steps of ADD. (08 Marks)

OR

- 8 a. With neat diagram, explain view template. (08 Marks)
b. Explain the test activities and architects role in testing. (08 Marks)

Module-5

- 9 a. Explain the categories of architectural pattern in detail. (08 Marks)
b. Explain layered architectural pattern. (08 Marks)

OR

- 10 a. Explain Broker architecture pattern. (08 Marks)
b. Explain Blackboard architecture pattern. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.