



CBCS SCHEME

18MCA553

Fifth Semester MCA Degree Examination, Jan./Feb. 2021 Software Architecture

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What makes good Architectural structure as well as process? Explain. (10 Marks)
b. With suitable diagram, explain reference architecture and its parts and also explain why software architecture is important? (10 Marks)

OR

- 2 a. Explain with suitable diagram, architecture structures and also explain Four – Plus – One approach. (10 Marks)
b. What is Architecture Business Cycle? With suitable diagram, explain the influences on architecture. (10 Marks)

Module-2

- 3 a. Explain Availability Quality attribute, with the help of general scenario. (10 Marks)
b. Discuss with suitable example, the common scheduling strategies. (10 Marks)

OR

- 4 a. What do you mean by Tactic? Explain with suitable diagram, the security tactic. (10 Marks)
b. Explain Business Qualities and justify why they are important. (10 Marks)

Module-3

- 5 a. Explain with proper diagram, the queuing model of performance. (10 Marks)
b. Discuss in detail about switch – over on a failure concept. (10 Marks)

OR

- 6 a. In detail explain, the steps involved in Quality attribute workshop. (10 Marks)
b. How do you categorize the business goals while gathering Architecturally Significant Requirement (ASRs)? (10 Marks)

Module-4

- 7 a. What is Attribute driven design and the steps involved in designing the architecture? (10 Marks)
b. Discuss in detail the steps involved in Software Architecture testing. (10 Marks)

OR

- 8 a. Discuss the seven parts in documenting the views. (10 Marks)
b. Enumerate on template in documenting the interface. (10 Marks)

Module-5

- 9 a. Explain with suitable structure the Black Board Architectural Pattern. (10 Marks)
b. Enumerate on Interactive design Pattern Model – View - Control. (10 Marks)

OR

- 10 a. Critically evaluate the distributed Pattern Broker. (10 Marks)
b. Write in detail about presentation Abstraction – Control Pattern. (10 Marks)

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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.