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BANGALORE - 560 037

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Eighth Semester B.E. Degree Examination, June/July 2018
Software Architectures

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

- 1 a. Define software architecture. Explain the factors that influence software architecture. (10 Marks)
- b. Explain the importance of software architecture and its uses. (10 Marks)
- 2 a. Write short notes on layered systems. (05 Marks)
- b. Explain the working of pipes and filters. (08 Marks)
- c. Elaborate on the case study "Keyword in context". (07 Marks)
- 3 a. Explain security quality attribute scenario along with its properties. (10 Marks)
- b. Explain the tactics used to achieve the quality attribute "Availability". (10 Marks)
- 4 a. Write short notes on the architectural pattern category "From mud to structure" and elaborate on the layers patterns with the three part schema with an example. (10 Marks)
- b. Mention the advantages and disadvantages of pipes and filters pattern as well as blackboard pattern. (10 Marks)

PART - B

- 5 a. Explain the 3-part schema of Broken pattern. (06 Marks)
- b. Explain any one dynamic scenario of MVC pattern. (08 Marks)
- c. Mention the advantages and disadvantages of PAC pattern. (06 Marks)
- 6 a. List and explain the components of microkernel pattern. (10 Marks)
- b. Explain the 3-partschema of reflection pattern. (06 Marks)
- c. Mention any two advantages and disadvantages of reflection pattern. (04 Marks)
- 7 a. Elaborate on the implementation of Whole-Part structure. (07 Marks)
- b. Explain the dynamics of Master-Slave pattern. (08 Marks)
- c. Mention the benefits and liabilities of Proxy design pattern. (05 Marks)
- 8 a. List and explain in detail on the ADD steps. (10 Marks)
- b. Narrate any 5 uses of architectural documentation. (05 Marks)
- c. Write short notes on documentation across views. (05 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.