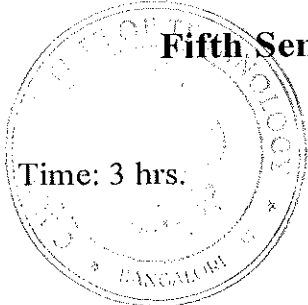


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10MCA546



Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Define software architecture. Explain the factors that influence an architecture. (10 Marks)  
b. Explain the module-based software architecture structure. (10 Marks)
- 2 a. Write a note on the following architecture styles :  
i) Pipes and filters  
ii) Repositories  
iii) Interpreters  
iv) Process control. (10 Marks)  
b. Discuss on the keyword in context as a case study. (10 Marks)
- 3 a. Discuss on the general scenario of security. And also explain the tactics to achieve it. (12 Marks)  
b. Explain the business qualities that shape a system's architecture. (08 Marks)
- 4 a. Discuss on the implementation steps of a layer pattern. (10 Marks)  
b. Discuss on the various scenarios of pipes and filter pattern. (10 Marks)
- 5 a. Write on the CRC structure of a broker pattern. (10 Marks)  
b. What is MVC? How is it implemented? (10 Marks)
- 6 a. Define reflection. Explain its structure. (10 Marks)  
b. Describe the structure of microkernel. (10 Marks)
- 7 a. Describe the implementation of master slave pattern. Explain its benefits. (10 Marks)  
b. Write a note on Proxy design pattern. (10 Marks)
- 8 a. Write a note on creating a skeletal system. (10 Marks)  
b. Explain on how you document a view. (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.