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10IS81

Eighth Semester B.E. Degree Examination, Jan./Feb. 2023
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. With the help of neat block diagram of ABC (Architecture Business Cycle). Explain in detail different activities which are involved in creating a software architecture. (10 Marks)
b. Write a note on structure recommendation, process recommendation. (10 Marks)
- 2 a. Explain in brief about KWIC (Keyword In Context) problem with abstract datatypes and implicit invocation styles to implement. (10 Marks)
b. Explain in detail about blackboard architectural style with its advantages and disadvantages. (10 Marks)
- 3 a. Explain availability tactics with Fault detection, Fault prevention and Fault recovery method. (10 Marks)
b. Classify the Security tactics. What are the different tactics for resisting attacks? (10 Marks)
- 4 a. Explain in detail about layered architecture pattern. Write its advantages and disadvantages. (10 Marks)
b. Explain in detail about Blackboard Architectural Pattern with its various participating components. (10 Marks)

PART – B

- 5 a. Define Broker architecture pattern. Explain types of participating components which comprises it. (10 Marks)
b. Explain with neat diagram, the Dynamic Scenarios of Model View Controller. (10 Marks)
- 6 a. What are the steps in implementing microkernel pattern? (10 Marks)
b. Bring about reflection pattern. Write its liabilities. (10 Marks)
- 7 a. Briefly explain the benefits of Master Slave pattern. (10 Marks)
b. Explain the variants of whole part pattern design. (10 Marks)
- 8 a. Explain in detail the different steps performed while designing an architecture using the ADD method. (10 Marks)
b. Write a short note on:
i) Forming the team structure
ii) Documenting the 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.