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10IS81

Eighth Semester B.E. Degree Examination, Aug./Sept.2020
Software Architecture

Time: 3 hrs.

Max. Marks: 100

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

PART – A

- 1 a. Why software architecture is important? (04 Marks)
b. Define Software Process. Explain its activities. (08 Marks)
c. Explain module and allocation structures. (08 Marks)
- 2 a. Explain the control loop solution for mobile robot. (06 Marks)
b. Explain KWIC with implicit invocation scheme. (06 Marks)
c. Define the following with an example:
(i) Set point (ii) Controlled variable
(iii) Feed control system (iv) Feed forward control system. (08 Marks)
- 3 a. What is availability? Explain the general scenario for availability. (08 Marks)
b. Explain Business Qualities. (06 Marks)
c. Explain Usability Tactics. (06 Marks)
- 4 a. What are the CRC's of a blackboard pattern? (06 Marks)
b. Explain the scenarios of pipes and fillers pattern. (08 Marks)
c. Explain any six implementation steps of layer pattern. (06 Marks)

PART – B

- 5 a. Explain the benefits and liabilities of broker pattern. (07 Marks)
b. Explain the dynamic scenarios of MVC pattern. (08 Marks)
c. Explain any 5 implementation steps of PAC pattern. (05 Marks)
- 6 a. What are the known uses of reflection pattern? (05 Marks)
b. What are the steps involved in implementing microkernel pattern. (10 Marks)
c. Explain Reflection pattern with its content, problem and solution. (05 Marks)
- 7 a. List and explain the steps to implement a whole-part structure. (10 Marks)
b. What are the benefits and liability of proxy structure? (05 Marks)
c. Explain the steps to implement Master Slave structure. (05 Marks)
- 8 a. Explain the steps involved in designing an architecture using ADD. (10 Marks)
b. Explain the parts of a document 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.