Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Software Architectures

Time: 3 hrs.

Max. Marks:100

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

PART - A

- 1 a. With the help of neat block diagram of ABC (Architecture Business Cycle). Explain in detail the different activities which are involved in creating a software architecture.(10 Marks)
 - b. Write short notes on:
 - i) Architectural patterns
 - ii) Reference model
 - iii) Reference architectures.

(06 Marks)

c. Why is software architecture important?

(04 Marks)

2 a. Discuss the invariants, advantages and disadvantages of pipes and filter architecture style.

(10 Marks)

b. Explain the brief about KWIC (Keyword in context) with shared data solution. (10 Marks)

a. What is quality attribute scenario? List the parts of such a scenario. Distinguish between availability scenario and modifiability scenario. (10 Marks)

- b. What do you mean by tactics? Explain the availability tactics with a neat diagram. (10 Marks)
- 4 a. Discuss the guidelines involved in the implementation of pipes and filter architecture.

(10 Marks)

b. Discuss in brief the pattern. From mud-to structure.

(10 Marks)

PART - B

- 5 a. Define broker architectural pattern. Explain types of participating components which comprises it. (10 Marks)
 - b. Explain with neat diagram the dynamic scenarios of Model View Controller (MVC).

(10 Marks)

- 6 a. What are the steps involved in implementing the microkernel system? (10 Marks)
 - b. Explain the dynamic scenarios of reflection with neat diagram. (10 Marks)
- 7 Write short notes on:
 - a. Design pattern
 - b. Master-slave pattern
 - c. Whole-part pattern
 - d. Proxy pattern.

(20 Marks)

- 8 a. Explain with neat diagram evolutionary delivery life cycle model.
 - b. White a note on creating a skeletal system.
 - c. What are the uses of architectural documentation?

(08 Marks) (06 Marks)

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