

USN

--	--	--	--	--	--	--	--	--	--

10IS81

Eighth Semester B.E. Degree Examination, Dec.2016/Jan.2017
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. 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. Briefly explain, what does software architecture constitute. (05 Marks)
c. Describe the architectural structure of a system. (05 Marks)
- 2 a. Enlist architectural styles and explain event-based, implicit invocation, in brief. (08 Marks)
b. State the problem of “key words in contex”. Propose solution through,
i) Abstraction data types (12 Marks)
ii) Implicit invocation solution.
- 3 a. What are the qualities that the architecture itself should posses? (06 Marks)
b. List the parts of quality attributes scenario. (04 Marks)
c. What is the goal of tactics for testability? Discuss the two categories of tactics for testing. (10 Marks)
- 4 a. Explain different steps involved in the implementation of pipe and filters architecture pattern. (10 Marks)
b. Discuss in brief the pattern, from mud to structure. (10 Marks)

PART – B

- 5 a. Explain the broker architectural pattern to structure distributed software system. (10 Marks)
b. What is model-view architectural pattern? With an example illustration, write its structure and implementation over a scenario. (10 Marks)
- 6 a. Enumerate the implementation of a micro-Kernel pattern. (10 Marks)
b. Explain the reflection architectural pattern and its known uses. (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 ADD and its steps. (08 Marks)
b. List the steps in documenting a view for architecture. (07 Marks)
c. What are the uses of architectural documentation? (05 Marks)

* * * * *

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any scribble or miswriting of answers, especially in the case of questions written in the margin, will be treated as malpractice.