Eighth Semester B.E. Degree Examination, July/August 2022 **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. b.	Explain briefly the properties of a good software architecture design. Discuss software structures in detail. (04 Marks) (08 Marks)
	C.	Define architectural patterns, reference models and reference architecture. Explain briefly the relationships between them. (08 Marks)
2	a.	Explain in brief about KWIC (Keyword in context) problem with abstract data types and implicit invocation styles to implement solutions. (08 Marks)
	b.	Explain the advantages and disadvantages of pipes and filters in architectural styles. (08 Marks)
	C.	Define architectural styles. Mention any four commonly used styles. (04 Marks)
3	a. b.	Explain the quality attribute scenarios for system quality attributes. (07 Marks) Explain availability. Explain the general scenario for availability. (07 Marks)
	C.	Explain Testability tactics and write a brief note on them. (06 Marks)
4	a. b.	Discuss the steps involved in the implementation of pipes and filters architecture. (08 Marks) Define blackboard architectural pattern. Explain the implantation of the blackboard pattern
	C	using example. (08 Marks) What are the benefits of Layered patterns? (04 Marks)
	C.	what are the benefits of Layered patterns:
		PART – B
5	a.	What is model-view architectural pattern? With an example illustration, write its structure and implementation over a scenario. (08 Marks)
	b.	Define the Broker architectural pattern explain the types of participating components which
	c.	comprises it. (08 Marks) List the benefits of presentation abstraction control (PAC) pattern. (04 Marks)
	٥.	List the benefits of presentation abstraction control (1710) pattern.
6	a.	Explain in brief the components comprising the structure of microkernel architectural pattern. (10 Marks)
	b.	Explain the reflection architecture pattern and its known uses. (10 Marks)
7	a.	Explain the five steps implementation of Master – Slave pattern. (10 Marks)
	b.	Define proxy design pattern. List the known uses and liabilities of the proxy design pattern. (10 Marks)

Explain the evolutionary delivery life cycle model with a diagram.

(06 Marks)

What are the steps in ADD?

(06 Marks)

c. Explain views with reference to concept choosing the view and its documentation. (08 Marks)