

Hall Ticket Number :

R-15**Code: 5G184**

IV B.Tech. II Semester Advanced Supplementary Examinations October 2020

Software Architecture

(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Answer all five units by choosing one question from each unit (5 x 14 = 70 Marks)

Marks CO Blooms Level

UNIT-I

1. a) With the help of neat block diagram of architecture business cycle and explain in detail the different activities which are involved in creating software architecture.
- b) Define Architecture.

12M	1	2
2M	1	1

OR

2. a) Briefly explain what are software constitutes.
- b) Describe about Where do architecture comes from.

7M	1	1,2
7M	1	1

UNIT-II

3. a) Explain in detail about Pipes and filters architectural style with types of (invariants) advantages and disadvantages.
- b) Discuss about Registers in detail.

10M	2	2
4M	2	6

OR

4. a) Discover the various architectural styles and explain event-based, implicit invocation, in brief.
- b) Summarize the other familiar architectures.

10M	2	4,2
4M	2	2

UNIT-III

5. a) Examine the characteristics of Architectural Design guidance in detail.
- b) Discuss about user interface architectures in detail.

7M	3	4
7M	3	6

OR

6. a) Explain the importance of interpretation in software development environments.
- b) Discuss about Architectural structures in detail.

10M	3	5,2
4M	3	6

UNIT-IV

7. a) Build the steps in pattern, from mud to structure.
- b) Summarize the process of Architecture style in detail.

10M	4	3
4M	4	2

OR

8. a) Define proxy architectural pattern and explain implementation steps.
- b) Discuss about Patterns for Distribution in detail.

8M	4	1,2
6M	4	6

UNIT-V

9. a) Explain brief about Application of ADL's in system Development.
- b) List out the major steps for Evaluating a Product Line.

10M	5	2
4M	5	1

OR

10. a) Discuss about Component Based Systems in detail.
- b) Explain about Legacy Systems in detail.

7M	5	6
7M	5	2

Important Note: 1. On completing your answers. Compulsorily draw diagonal cross line 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.