

Hall Ticket Number:

Y I 9 A I T 4 0 5

III/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION

December, 2021

Fifth Semester

Time: Three Hours

Information Technology
SOFTWARE ENGINEERING

Maximum: 50 Marks

Answer Question No.1 compulsorily.

Answer ONE question from each unit.

(10X1 = 10 Marks)

(4X10=40 Marks)

1. a) Define Software Engineering in IEEE terms.
- b) What is software Process?
- c) What Is an Agile Process?
- d) Define Use Case.
- e) Write briefly about non functional requirements.
- f) Define procedural abstraction in design engineering.
- g) What is verification and validation?
- h) What is Quality?
- i) Depict Software Architecture.
- j) Define Software Testing and what is the purpose of testing.

CO1
CO1
CO1
CO2
CO2
CO2
CO2
CO3
CO3
CO3

Unit –I

2. a) Explain software myths.
- b) Describe Evolutionary Process Models.

CO1 5M
CO1 5M

(OR)

3. a) What are the characteristics of the software?
- b) Demonstrate Component based Development.

CO1 5M
CO1 5M

Unit –II

4. a) What is Extreme Programming? Explain.
- b) How Agile Modelling is useful for releasing project quickly?

CO2 5M
CO2 5M

(OR)

5. a) How Building the requirements Model in software engineering?
- b) What are Validating Requirements?

CO2 5M
CO2 5M

Unit –III

6. a) Explain Class Based Modelling.
- b) Interpret Architectural Design Elements in detail.

CO3 5M
CO3 5M

(OR)

7. Explain about various architectural styles.

CO3 10M

Unit –IV

8. a) What is the use of Informal and Formal Reviews?
- b) Write about the art of debugging.

CO4 5M
CO4 5M

(OR)

9. a) Explain White-Box Testing, Basis Path Testing in brief.
- b) What are the Test Strategies for Conventional Software?

CO4 5M
CO4 5M