

1604-18-737-025

Code No.15142/AICTE

## FACULTY OF ENGINEERING

B.E. V – Semester (IT) (AICTE) (Main) Examination, July 2021

Subject: Software Engineering

Max.Marks: 70

Time: 2 Hours

Note: Missing data, if any, may be suitably assumed

### PART – A

Answer any five questions.

(5x2=10 Marks)

- 1 Differentiate between software product and software process?
- ~~2~~ What is agility in software process?
- ~~3~~ What are software myths?
- 4 Discuss the need of requirements engineering.
- ~~5~~ Define risk in software development. What are the characteristics of risk?
- ~~6~~ What is RMMM plan in risk management?
- ~~7~~ What is white box testing?
- 8 What is verification and validation in software testing?
- 9 What are different SPI processes?
- 10 What are the software configuration management (SCM) elements?

### PART – B

Answer any four questions.

(4x15=60 Marks)

- ✓ 11 a) Discuss the principles of agility.  
~~b) Explain Extreme Programming (XP) in detail.~~
- ✓ 12 ~~a) Describe different types of process flows.~~  
~~b) Explain the types of evolutionary process models.~~
- 13 Explain the different tasks that are performed in requirements engineering.
- 14 a) Explain software quality attributes and software quality guidelines in the design of software project.  
b) What are the design classes? Explain in detail.
- 15 a) Describe framework of SPI. Explain elements of SPI framework.  
b) Discuss COCOMO models for software project estimation.
- ✓ 16 a) What is SQA in software development? Discuss the elements of SQA.  
b) Explain goals of SQA.
- ✓ 17 ~~a) Explain test strategies for conventional software.~~  
~~b) Explain the concept of Basis path testing.~~