Time:

USOF TECHNO

17CS45

Fourth Semester B.E. Degree Examination, Feb./Mar. 2022

Software Engineering

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

# Module-1

- a. What are the fundamental activities of software engineering process? Explain waterfall process model with neat diagram. (08 Marks)
  - b. What is software engineering, what are the key challenges facing software engineering? Explain. (05 Marks)
  - c. List and explain five IEEE standard software engineering code and ethics. (07 Marks)

## OR

- 2 a. Explain software requirement engineering process with neat diagram. (08 Marks)
  - b. Differential between functional v/s non-functional requirements of system. (05 Marks)
  - c. Write the structures of the Software Requirements Specification (SRS) document a suggested by IEEE standard. (07 Marks)

# Module-2

a. Write context diagram of MHC – PMS software.

(05 Marks)

b. Write and explain sequence diagram of MHC – PMS system.

(08 Marks)

c. What is Model Driven Engineering (MDE)? Explain three types of abstract model system.

(07 Marks)

#### OR

- 4 a. What are the object classes of weather station mention and explain. (05 Marks)
  b. Write state diagram of weather station system and explain. (08 Marks)
  - c. What is software reuse? Explain open source software licensing.

# (07 Marks)

### Module-3

- 5 a. Explain the general model of the software testing process.

  b. Explain acceptance testing with neat diagram. (08 Marks)
  - b. Explain acceptance testing with neat diagram.c. Explain Test Driven Development (TDD), with neat diagram.

(07 Marks)

## OR

- 6 a. Define software evolution. Explain software evolution process with neat diagram. (08 Marks)
  - b. Explain Lehman's laws of program evolution dynamics.

(05 Marks)

c. Explain software re-engineering process with neat diagram.

(07 Marks)

7 a.	Discuss factor affecting softwar	Module-4 re pricing.		(05 Marks)
b.	Explain project scheduling pro-	Explain project scheduling process with example.  Explain software cost estimation techniques and COCOMO – II model.		
c.	. Explain software cost estimation	on techniques and cocc	Marian Maria	(08 Marks)
		OR	And the second s	
8 a.	Discuss software quality attributes.			(07 Marks) (08 Marks)
b. c.	Explain the inspection checks in program inspection.  Write a note on software standards.			(05 Marks)
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		Module-5		(05 Mandan)
9 a.	<ul> <li>a. Explain coping with change of software and requirements with diagram.</li> <li>b. Explain the principles of agile methods and development process.</li> <li>c. Explain extreme programming release with neat diagram.</li> </ul>			(05 Marks) (07 Marks)
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10 0	. Explain SCRUM process, cycl-	OR e and mention merits an	d SCRUM process.	(08 Marks)
10 a. b.	. Explain scaling agile methods.	Alexander and the second secon	The state of the	(07 Marks) (05 Marks)
c.	. Write a note on pair programm	ing.	See	(05 Marks)
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