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[2]

- (b) Discuss the role of redundancy in the fault-tolerance system.
- (c) Describe all the fundamental property of dependability related with the fault-tolerance system.

Unit-∏

# **2.** Answer any **two** questions :

- (a) Describe how fault prevention in the system can be done.
- (b) List out all the attributes of fault-tolerance system and discuss any two.
- (c) Write a short note on the following:
  - (i) Fault Removal
  - (ii) Impairments in the system

#### Unit-III

# 3. Answer any two questions:

- (a) Give the reliability block diagram and explain the same.
- (b) Explain in full details the Markov processes and its application.

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# B. E. (Seventh Semester) Examination, April-May 2020

(Old Scheme)

(CSE, IT Engg. Branch)

#### FAULT TOLERANT SYSTEM

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

**Note** : Answer all the questions. All questions carry equal marks.

#### Unit-I

- 1. Answer any **two** questions:
  - (a) Describe the applications of fault-tolerance system with the self-explainatory diagram.

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- (c) Write a short note on the following:
  - (i) Failure rate
  - (ii) Mean time to failure
  - (iii) Mean time to repair

### **Unit-IV**

- **4.** Answer any **two** questions :
  - (a) Explain the process of Encoding and decoding techniques used in fault-tolerant system.
  - (b) Give the significance of time redundancy in the good fault-tolerant system.
  - (c) Discuss the objectives of the redundancy schemes.

#### Unit-V

- 5. Answer any **two** questions:
  - (a) What are the software fault tolerance techniques? Describe its utility in fault tolerant system.
  - (b) Discuss all the programming features in the good fault-tolerant system.
  - (c) Explain the role of software fault tolerance.