

GUJARAT TECHNOLOGICAL UNIVERSITY**ME - SEMESTER- 2 • EXAMINATION – WINTER - 2023****Subject Code:3720218****Date: 16 Jan 2024****Subject Name:Secure Software Design and Enterprise Computing****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the importance of Software Quality Assurance. **07**
(b) Explain in brief the distributed N-tier software application. **07**
- Q.2** (a) Explain Clustering with respect to Enterprise System Administration. **07**
(b) Discuss Software security programming practices. **07**
- OR**
- (b) Describe the nature and scope of enterprise software applications. **07**
- Q.3** (a) Explain Design guidelines of Enterprise Systems Administration. **07**
(b) Explain DHCP in detail. **07**
- OR**
- Q.3** (a) Describe the various ways to defend web and mobile applications against attackers. **07**
(b) Explain DNS in brief. **07**
- Q.4** (a) Discuss Advantage and Disadvantage of Enterprise System. **07**
(b) Explain the process of securing E-mail. **07**
- OR**
- Q.4** (a) What is server infrastructure? Describe directory-based server infrastructure in a heterogeneous systems environment. **07**
(b) Explain Enterprise Network in detail. **07**
- Q.5** (a) What is ERP? Discuss the future of ERP systems. **07**
(b) What is SQL Injection? How are insecure exceptions and SQL Injection handled? **07**
- OR**
- Q.5** (a) Discuss Software vulnerabilities in detail. **07**
(b) Explain in detail the various server resource utilization methods. **07**
