

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER IX- EXAMINATION –SUMMER-2024

Subject Code: 2698603**Date: 03/05/2024****Subject Name: Ethics in Computing****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1 (a)** Answer all the questions below. **07**
 1. Define IOT? What is vision of IOT? [2] (S-23)
 2. Define virtualization. Give examples. [1]
 3. What is an autonomous agent? [1]
 4. What is encryption? Write its use along with an example of it. [2]
 5. What is the use of firewall? [1]
 Unit-10
- (b)** What is computer ethics? What is the need of computer ethics in education? Discuss. **07**
 s-23(7)
- Q.2 (a)** Write a short note on intellectual property and protection of ownership rights. Unit-6 **07**
 W-22
- (b)** What is computer crime? Discuss different Computer crime prevention strategies. **07**
 Unit-9
- OR**
- (b)** What is the role of ICT in a working place? Discuss. Unit-7 **07**
 S-23(8)
- Q.3 (a)** What is Digital divide? Discuss the obstacles to overcome digital divide. Unit-7 **07**
 S-23(16)
- (b)** Define security and privacy. Why are both important in the information age? **07**
 Unit-5
- OR**
- Q.3 (a)** How ethical reasoning and decision making are correlated? Explain. Unit-3 **07**
 (b) Shortly write on morality, law, etiquettes and manners. Unit-2 **07**
- Q.4 (a)** Discuss computing virtualization terminologies. Write about platform virtualization and Network virtualization. Unit-10 only Virtualization **07**
 (b) Explain the difference between denial-of-service attacks and penetration attacks. **07**
- OR**
- Q.4 (a)** What is Cyberbullying? What are the effects of Cyberbullying on society? Explain. Unit-11 **07**
 (b) Write a short note on mobile system and their social, ethical, and security issues. Unit-12 **07**
- Q.5 (a)** Define virtual reality. Write a short note on different types of virtual reality. Unit-10 **07**
 (b) Why is it so difficult for countries to defend themselves from and respond to cyber-attacks? Discuss. **07**
- OR**
- Q.5 (a)** List and briefly discuss five attack motives. Unit-9 Motives of Computer Crimes **07**
 (b) Briefly discuss consumer protection and techniques to improve software quality. **07**
 Unit-8
