

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]
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]
- (b) What is computer ethics? What is the need of computer ethics in education? Discuss. **07**
- Q.2** (a) Write a short note on intellectual property and protection of ownership rights. **07**
(b) What is computer crime? Discuss different Computer crime prevention strategies. **07**
- OR**
- (b) What is the role of ICT in a working place? Discuss. **07**
- Q.3** (a) What is Digital divide? Discuss the obstacles to overcome digital divide. **07**
(b) Define security and privacy. Why are both important in the information age? **07**
- OR**
- Q.3** (a) How ethical reasoning and decision making are correlated? Explain. **07**
(b) Shortly write on morality, law, etiquettes and manners. **07**
- Q.4** (a) Discuss computing virtualization terminologies. Write about platform virtualization and Network 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. **07**
(b) Write a short note on mobile system and their social, ethical, and security issues. **07**
- Q.5** (a) Define virtual reality. Write a short note on different types of virtual reality. **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. **07**
(b) Briefly discuss consumer protection and techniques to improve software quality. **07**
