



MCA DEGREE EXAMINATIONS: NOV/DEC 2023

(Regulation 2020)

Third Semester

MASTER OF COMPUTER APPLICATIONS

P20CAT3002: Ethics in Computing

COURSE OUTCOMES

- CO1:** Examine situations and to internalize the need for applying ethical principles, values to tackle with various situations.
- CO2:** Express the aspects of computer crime, code of ethics and standards of computer professionals.
- CO3:** Show a responsible attitude towards the use of computer as well as the technology.
- CO4:** Understand ethical issues in software development and social networking.
- CO5:** Analyse the professional responsibility and empowering access to information in the work.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. What are the benefits of integrating ethical principles in information technology for businesses? CO1 [K₂]
2. Enumerate two ethical responsibilities that IT professionals should uphold in their roles. CO1 [K₁]
3. Differentiate between copyrights, patents, and trade secrets in terms of protection and duration. CO2 [K₂]
4. Name a category of perpetrators commonly involved in computer crimes. CO2 [K₁]
5. Define the First Amendment rights as they relate to freedom of expression. CO3 [K₁]
6. Identify three key issues related to freedom of expression in the digital era. CO3 [K₁]
7. Name a strategy for engineering quality standards in software development. CO4 [K₁]
8. State the impact of social networking on personal privacy in-depth. CO4 [K₂]
9. Define contingent workers in the context of IT organizations. CO5 [K₂]
10. Explore the relationship between whistleblowing and organizational culture. CO5 [K₂]

PART C (6 x 5 = 30 Marks)

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| 11. | Discuss the role of ethical behavior for end-users of information technology. | CO1 | [K ₂] |
| 12. | Outline three strategies for preventing and combating computer crimes. | CO2 | [K ₂] |
| 13. | Provide examples of two types of computer exploits and their potential impacts. | CO2 | [K ₂] |
| 14. | Explain how technological advancements contribute to both the protection and infringement of privacy. | CO3 | [K ₄] |
| 15. | Analyze three key ethical issues in the process of software development. | CO4 | [K ₄] |
| 16. | Outline three specific practices or initiatives that organizations can adopt to promote green computing. | CO5 | [K ₂] |

Answer any FIVE Questions

PART C (5 x 10 = 50 Marks)

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| 17. | How do ethical considerations differ in computing compared to other domains? Briefly describe with an example. | CO1 | [K ₂] |
| 18. | Explain how implementing trustworthy computing can help mitigate the risks associated with computer exploits | CO2 | [K ₄] |
| 19. | Explore the challenges of maintaining privacy and freedom of expression on social media platforms. | CO3 | [K ₄] |
| 20. | Analyze the potential strategies or policies that could balance the benefits of social networking with privacy concerns. | CO4 | [K ₄] |
| 21. | Explain how software product liability can become a significant issue, and analyze the implications for the industry with a real-world example. | CO4 | [K ₄] |
| 22. | Discuss the strategic importance of an ICT Industry Code of Conduct in shaping ethical behavior within the industry. | CO5 | [K ₄] |
