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Question Paper Code:U2708

B.E./B.Tech. DEGREE EXAMINATION, NOV 2025

Seventh Semester

Professional Elective

21CSV708 – ETHICS AND AI

(Common to CSE, IT & CSD Engineering branches)

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define Morality and Ethics in AI. CO1- U
2. How does AI impact trust in various contexts? CO1- U
3. List out the International ethical initiatives of AI. CO1- U
4. What are the examples of ethical dilemmas that arise in International contexts? CO1- U
5. Define the scope of Transparency in Autonomous systems. CO1- U
6. Define Algorithmic bias considerations. CO1- U
7. What are the differences between ethics and morality? CO1- U
8. How do Military Robots follow ethical concerns? CO1- U
9. What is a major challenge of AI Related to ethics and societal impact? CO1- U
10. How do international AI frameworks benefit member countries? CO1- U

PART – B (5 x 16= 80 Marks)

11. (a) Apply AI technologies to monitor and protect ecosystems. CO2- App (16)
Or
(b) Apply transparency in AI development to improve and foster public trust? CO2- App (16)

12. (a) Assess the ethical concerns in the deployment of AI in healthcare, considering both benefits and risks. CO1- U (16)
- Or
- (b) Discuss briefly about ethical harms and concerns in the design of autonomous robots. CO1- U (16)
13. (a) What are the key principles and requirements outlined in the ontological standard for Ethically Driven Robotics and Automation Systems? CO1- U (16)
- Or
- (b) Implement how transparency is maintained in autonomous systems? CO1- U (16)
14. (a) Imagine you are part of a team developing a new surveillance technology for public safety. How would you apply ethical principles to ensure that the technology is used responsibly and does not infringe on individuals' rights to privacy? What safeguards would you put in place? CO2- App (16)
- Or
- (b) Suppose you are designing a cyber-security system for a company, how would you apply ethical principles to balance the need for robust security measures with the potential impact on user privacy? What strategies would you implement to ensure both security and ethical treatment of user information? CO2- App (16)
15. (a) Explain in detail about the Challenges in AI. CO1- U (16)
- Or
- (b) What role does decision-making play in the implementation of new technologies in industrial operations? CO1- U (16)