

**Centre for Aerospace & Defence Laws (CADL)
DIRECTORATE OF DISTANCE EDUCATION
NALSAR UNIVERSITY OF LAW, HYDERABAD**

M.A. (SECURITY & DEFENCE LAWS)

Academic Year: 2022-2023

First Semester Repeat Examination (June, 2023)

Paper III - 1.1.3. Defence Technology and Defence Laws

Duration of the Examination: 2 ½ hours

Total Marks : 70 marks

INSTRUCTIONS TO CANDIDATES

- a) Read the instructions carefully and adhere to the same.
 - b) Please mention your DDE ID No., date of the exam, name of the programme & subject on the Answer Sheet and the Additional Answer Sheets, if any.
 - c) The questions to be interpreted as given and no clarification can be sought from the Invigilator.
 - d) Clearly indicate the question numbers while answering them. Answers without question numbers / wrong question numbers will not be evaluated.
 - e) Write the answers clearly and neatly. Answers in illegible handwriting will not be taken into consideration.
 - f) Candidates are prohibited to carry phones or any other electronic devices, books, material etc. in the Examination Hall.
 - g) Copying is strictly prohibited and is considered as a serious academic misconduct and the University will take action as it deems fit.
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Section – A

**Answer FIVE questions out of SEVEN questions and each question carries 10 marks.
(5 x 10 marks = 50 marks)**

1. Analyze the concept of disruptive technologies and their potential impact on warfare in the 21st century. How can nations adapt to and exploit disruptive technologies for military advantage?
2. Analyze the lessons learned from the Covid-19 pandemic for enhancing defence and security preparedness. How can technology play a role in addressing future crises?

3. Assess India's quest for dual-use technology and its implications for national security. What are the opportunities and challenges associated with the acquisition and development of dual-use technologies?
4. Discuss the importance of intellectual property rights (IPR) in defence technology development. What are the IPR challenges faced by the Indian defence industry and how can they be addressed?
5. Discuss the relationship between technology and security, highlighting the role of technological advancements in shaping defence capabilities.
6. Identify and discuss the legal instruments necessary to facilitate successful technology transfer agreements. What are the key issues and challenges that need to be addressed during the negotiation and implementation of TOT agreements?
7. India is exploring the application of artificial intelligence (AI) in its military operations. Discuss the potential benefits, challenges, and ethical considerations in adopting AI technology for defence purposes.

Section – B

Answer FOUR questions out of SIX questions and each question carries 05 marks. (4 x 5 marks = 20 marks)

- a. Assess the impact of globalization on the defence and security industries and its influence on domestic institutions.
- b. Discuss the implications of the Covid-19 pandemic on defence companies.
- c. Discuss the role of artificial intelligence (AI) in military operations from the Indian perspective.
- d. Evaluate the adequacy of IPR protection laws in the context of India's indigenous defence development.
- e. Evaluate the significance of stealth technology in modern warfare.
- f. Outline the equipment and technology requirements of India to strengthen its defence capabilities.