

**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 - End Semester Examination (January, 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. *Technology has been transferred from New and Emerging Technologies (NET) to New and Emerging Strategic Technologies (NEST).* Critically examine the Historical Evolution of Technology with special reference to Defence Technologies.
2. *“The nation relies on the technological superiority of its armed forces.”* Do you agree? Explain it in the context of equipment and technology requirements in the Defence Sector. Also discuss the role and importance of defence technology in Indian Armed Forces.

3. What do you mean by 'Artificial Intelligence'? How Artificial Intelligence can help Indian Armed Forces?
4. Define Technology? What are the various modes in which technology is transferred? Discuss the key issues and challenges faced in the Transfer of Technology Agreements.
5. What do you understand by Missile Technology? Explain various types of military missiles with suitable examples in the Indian context.
6. *"India is a heavy importer of defence technologies and the framework of IPR laws needs to be concretely defined so as to avoid India facing infringement charges."* In the light of the above statement, discuss the key Intellectual Property Rights issues relating to Defence Sector.
7. *"Technology is changing at a much faster pace when compared to the changes to the Legislations."* Do you agree? Elaborate the above statement in general and also with specific reference to the defence sector.

Section – B

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

- A. Directed Energy Weapons
- B. Technology Diffusion
- C. Technology and Export Controls
- D. Regulation of Defence Technology in India
- E. Battlefield Transparency
- F. NPT and 'No- First Use' Doctrine