

SYLLABUS OF DEFENCE STUDIES

Defence Studies B.A/ B.Sc. I (PAPER-I)

Evolution of the Indian Art and Science of War (upto 1857)

AIM: The main idea behind this paper is to give a conceptual background of the events and factors which influenced the course of history and helped in developing the art and science of war in India

Part I

1. Military system in Vedic and Epic Age
2. Comparative study of Indo-Greek art and science of war with special reference to the Battle of Hydaspes (326 B.C.)
3. Mauryan Military System as described by Megasthenes
4. Kautilya's philosophy of war, concept of Defence and Security, military organization and inter-state relations
5. Decline of Chariots and the importance of Elephants and Cavalry upto 7th century A.D
6. Army Organisation during Sultanate Period
7. Mughal Military System with reference to the Battle of Panipat – 1526 AD. Military System under Akbar and Great and Aurangzeb

Part II

8. Maratha Military system with reference to irregular warfare of Shivaji Battle of Panipat 1761
9. Anglo-Maratha war with reference to the Battle of Assaya 1803 AD
10. Military Organisation under Guru Gobind Singh and Ranjit Singh
11. Causes and Consequences of the War of Independence (1857 AD)
12. Post – 1857 period and re-organisation of the Indian Army under the Crown
13. Progressive nationalization of the India Armed Forces with reference to the nationalist environment

Defence Studies B.A/ B.Sc. I (PAPER-II)

Evolution of the Indian Art and Science of War (1858 to date)

Part I

1. Reorganisation of the Indian Army under the British Crown
2. Amalgamation of the Presidency Armies and Kitchner's Reforms
3. Post-war Reorganisation (1920-1923)
4. Indian Armed Forces during the World War II
5. Indianisation of the Armed Forces
6. Partition of the Armed Forces: You

Part II

7. Military Operations in Kashmir (1948)
 - a. Kashmir Dispute: Genesis and Progression
 - b. Military Operations
 - c. Politico-Military Lessons
8. Sino-Indian Conflict (1962)
 - a. Background of the Sino-India Border dispute
 - b. Military Operations
 - c. Politico-military lessons
9. Indo-Pakistan Conflict (1965)
 - a. Background and causes with reference to Kutch operations
 - b. Military Operations with special reference to the land battles

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- c. Role of Navy and Air Force
- d. Politico-military lessons

Part III

- 10. Concept and the application of the Principle of War with special reference
- 11. Indian Defence: Contemporary scenarios
- 12. Defence Research and Development (R&D) in Indian context

Defence Studies B.A/ B.Sc. I (PAPER-III)
War and Peace in Contemporary World

- 1. World Order: concept and recent trends
- 2. Conceptual framework of War and Peace
 - a. War: Concept and Theories
 - b. Peace: Concept and Approaches
- 3. Modern /war fare: Conventional, nuclear, Guerilla and Irregular Warfare, Limited and Specialized Warfare with reference to mountain, desert and jungle warfare, terrorism as a new mode of conflict
- 4. Regional cooperation and Collective Security
- 5. Disarmament and Arms Control: Preliminary Treatment
- 6. Role of United Nations in Peace-keeping and Peace Building
- 7. War as an Economic Problem
- 8. Defence and Development
- 9. Mobilization of Resources
- 10. Economic Warfare
- 11. Post-war Economy and Reconstruction
- 12. Arms Aid and Trade
- 13. Settlement of Disputes, Belligerent and their Armed Forces, Enemy character, Effects of the outbreak of war
- 14. Forces, Enemy Character, Effects of the Outbreak of war
- 15. Nuclear Warfare and Laws of War
- 16. Conventional warfare and laws of war
- 17. Modern Development and laws of neutrality
- 18. Diplomacy, peace and war

Defence Studies B.A/ B.Sc. I (Practical)

Experimental Exercise Work	:	45 marks
Viva-voce	:	15 marks
Records	:	5 marks
Total	:	65 marks

Course Contents of the practical

- 1. Introductions and interpretation of topographical sheets, conventional signs and grid system
- 2. Scale construction and Interco version
- 3. Bearing and Interco versions of bearing
- 4. Compass: Prismatic Liquid and its uses during day and night
- 5. Determination of Individual Compass Error
- 6. Determination of positions on grided map

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7. Intersection and Resection on Survey maps of hilly regions to determine indivisibility between two points by gradient method, section-drawing and proportion sum method
8. Traversing

Defence Studies B.A/ B.Sc. II
PAPER-I
Modern Strategic Thought
(Machiavellian to the Nuclear Age)

Part I

1.
 - a. Concept of war: its relationship with politics
 - b. The renaissance of the art of war and impact of science on war
 - c. Concept of National War
 - d. Concept of Mass Army
 - e. Concept of Revolutionary War, Guerrilla and Counter-Guerrilla Warfare (The treatment of the above topics should be done with reference to the views of Machiavelli, Vauban, Clausewitz, Jomini, Engels and Marx, Mao-tse-tung)
2.
 - a. Concept of Strategy and Tactice
 - b. Linkages between commercial, financial, industrial, economic strength and political-military strength of a nation
3. Tactice and Logistics with reference to the view of Clausewizz and Joirnni
4. Theories of Land, Sea and Air Power
 - a. Theories of Sea Power, Naval Strategy, Heartland theory and continental doctrines of Sea Power with special reference to the view of A.T. Mahan, Halford Mackinder
 - b. Theories of Land warfare, mobile defence, doctrine of limited liability, advent of Tanks and /machine warfare with special reference of the views of Liddel-Hart, J.F.C. Fuller and de Gaulle

Part II

1. German concept of Total War, German Strategy in Mzacine Age
2. Allied Strategy in Europe (1939-45)
3. Evolution of Sovet Military Strategy with reference to the views of Lennin, Trotsky, Stalin and Sokolovsky
4. Concept of nuclear deterrence and defence with reference with the views of Liddell Hart, Andre Beaufte, Yharkabi, H. Kissinger
5. Concept of disarmament and development Vs concept of defence and development
6. Concept of Arms Control

Defence Studies B.A/ B.Sc. II
PAPER-II
National Security

Part I

1. Concept of National Security with reference to the contemporary thinking
2. Power Theories
 - a. The imprecision of power as a concept
 - b. Attempt to operationalize the definition of power
 - c. The Power profile of Nation states

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- d. The tangible elements of power: Geography – population, territory, natural resources and industrial capacity, agricultural capacity and military strength and credibility
- e. Intangible Elements of Power: Leadership – Bureaucratic Organizational efficiency, type of government, social cohesiveness, reputation, foreign support and defence, accidents
3. Alternative Models of International Security
 - a. Balance of Power
 - b. Collective Security
 - c. Collective Defence
 - d. Non-Alignment
4. Strategy of Deterrence: Concept and practice in conventional and nuclear context
5. Arms proliferation as a constraint in national, regional and international security, prospects for arms control
6. International Terrorism: Concept and dimensions
7. Insurgency and Counter – Insurgency – Concept and dimensions
8. Linkages between foreign and defence policies and the domestic developments

Part II

9. Problems and policy of India's security and defence in pre-independence period
10. India's quest for security and problems of National Defence
 - a. India-Pakistan relations with special reference to 1948 conflict, Kutch Dispute 1965, conflict and 1971 war and after, Pakistan's Nuclear Policy and impact on India's Security
 - b. India-China relations with special reference to 1962 conflict, India-China boundary dispute and post 1962 developments
 - c. India's relations with Bangladesh, Nepal, Bhutan and Burma
 - d. Role of Super and Major powers in South Asian strategic environment
 - e. Role of South Asian Association of regional cooperation as a model for regional security
11. India's Nuclear Policy
 - a. Science and Technology developments
 - b. Developments in the nuclear fields in the developing world and its security implications for India
 - c. India's Nuclear relations with Great Powers
12.
 - a. Internal Security of India: Socio-economic, Political, Scientific and Technological, Military and allied aspects
 - b. Security Problems in different regions of India with special reference to the insurgency and terrorism
13.
 - a. strategic environment in India Ocean region
 - b. Indian and the problems of security in the Indian Ocean
 - c. India's strategy for Naval Security
14. India's current Security perspective, Defence and Military Preparedness

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Practical

Written	:	45 marks
Viva-voce	:	15 marks
Record	:	5 marks
Total	:	65 marks

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Course Contents of the practical

1. Organisation, weapons and equipment at platoon level
2. Elementary knowledge of modern tactics
 - a. Field craft: study and description of ground, judging distance, indication and recognition of targets, personal concealment, camouflage and deception, fire control order, section formations, fire and movement tactics by a section
3. Patrolling
 - a. General Introduction
 - b. Preparation
 - c. Conduct
 - d. Debriefing
4. Appreciation on the Sand Model on the following. The narrative will be at Platoon level and students would be required to attempt the exercise at SECTION level on the following –
 - a. Attack
 - b. Defence



Defence Studies B.A/ B.Sc. III

PAPER-I

Arab-Israel Wars of 1967 and 1973

Part I – Arab-Israel War 1967

1. Historical background of the hostility, middle-east in global strategy 1967. Impact of terrain and geographical location on military, relative strength of opposing forces 1967 war in the air.
2. The Sinai Theatre – Rival strategies and tactics, breakthrough at Rafah, military operations and analysis of the tactics, breakthrough at Rafah, military operations and analysis of the battle, battle of ABU Agila, Analysis of first, second and third day's fighting: final days fighting, an evaluation of Sinai fighting.
3. The Jordanian Front-Rival dispositions and plans; Battles on 5-8 June 1967 ; military operations on 7,8 June 1967 over all- analysis of war on the Jordanian front.
4. The Syrian Front – Rival dispositions and strategies ; operations during 5-8 June 1967; Israeli Plan of attack and the operations on 9 June 1957;operation on 10 June 1967and capture of Golan Heights; An evaluation of fighting of the Syrian front.
5. The navel fighting in 1967- Rival naval balance and strategies; course of naval events; comments of naval fighting.
6. Lesson of the 1967 war.


Part II- Arab-Israeli War 1973.

1. Background to the 1973 war- Event after 1967 war; Post-1967 boundaries in the Middle East: genesis and causes of 1973 war.

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2. Preparatory stage of war- Strategic aims of Arabs and Israeli preparations and planning ,at by Arab and Israelis Military balance.
3. The war between Egypt and Israel- The Bridgehead battle and the Egyptian crossing of Suez- Canal; Stalemate in Sinai; Israeli counter offensive; salient lessons emerged from these operations.
4. The war between Syrian and Israel- Rival dispositions and plans; Syrian offensive of Golan front, Israeli counter- offensive Lessons on the Golan front.
5. The Air War- Rival air strategies; conduct of air operations; lessons of the air war.
6. The Naval War – Rival naval strategies ; conduct of naval operations; lessons of the naval war.
7. Lessons of the 1973 war.
8. Post- 1973 development and the peace process.



Defence Studies B.A/ B.Sc. III
PAPER-II
Military Psychology

1. Dimensions of behavior, motivation, affective and cognitive process, Relevance of Psychology in Defence Problems.
2. Personnel selection and classification for defence services , use of intelligence tests, group testing procedures and elementary personality testing.
3. Application of the Principles of Psychology in military training, motivation, learning transfer of training group and individual training.
4. Factors in adjustment of the ex- soldiers.

Group Dynamics in Military Life:

- (a) **Group-** Structure, types and their functions, formation of social norms, groups problems solving.
- (b) **Leadership-** Nature of leadership. Function of a leader, Emergency of a leader, typing of leadership , Leadership training.
- (c) **Morale-** Nature, determinants and techniques of morale, its significance in Defence.
- (d) **Attitude-** Attitude organizations. Impact of military life of the formation of attitudes, attitudes channel.

Psychological Warfare:

- (a) Nature type organization and techniques of military propaganda.
- (b) Structure, theories and techniques of coercive persuasion, determinant of brain washing effects.
- (c) Psychological of rumor , nature techniques and its merits and demerits its impact on war and society.

Defence Studies B.A/ B.Sc. III
PAPER-III
Insurgency and Counter Insurgency

Revolutionary war and Guerilla Warfare . History of Guerilla Warfare , theory of Guerilla warfare, Unconventional warfare in the Nuclear Age. Three intangibles time space and will. Characteristics of Guerilla warfare. Special criteria governing guerilla warfare Environment. Unit of functions and proximity . Strategy and tactics of Guerrilla warfare. Thoughts of Lenin, Mao-Tse-Tung and Che-guevara modern concepts. Urban Guerrilla and its philosophers. Counterinsurgency: Basic principles of success of counter insurgency in the Mountains of Greece and in the jungles of Malaya . Defeat in the jungles of Indo-China and Vietnam problems in insurgence in the developing countries(Special reference of South East Asia)

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PAPER-I PAPER-IV– Remote Sensing and National Defence

- A. Significance of remote sensing for National Defence.
- B. Remote Sensing: Basic principles of remote sensing ; aerial photography definition , scope, application the types ; basic information for aerial photography, mission, aerial camera-components and functions; completion of photography task and production of positive copies; procurements of aerial photography in India.
- C. Concept of remote sensing ; generation of electromagnetic radiation; imaging system; interaction with atmospheres and Earth surface; sensing platform sensor system; optical, mechanical scanner, MSS Thermal ,imagery types.
- D. Photogram try ; geometry of aerial photography ,tili, swing, image interpretation ;visibility of objects and image quality ;elements, techniques and steps of image interpretations; image displacement , orientation and rectification .

Defence Studies B.A/ B.Sc. III

**PAPER-IV
Strategic Geography**

- A.
 1. Strategic Geography and its principles.
 2. The Planning Process.
 3. Geography of Land, sea and air warfare.
 4. Frontiers and boundaries.
 5. Maritime boundaries and strategic geography.
- B. Geographic and strategic polarity and multiplicity of interests.
- C. Strategic geography and India
 1. India in the world strategic arena.
 2. Strategic geography of India and her geo-strategic problem with special reference to China and other neighbours in South Asia.
 3. India's resource base; problem and prospects of the conservation of resources.
 4. India's atomic energy and space programmes.
 5. Enlargement of space, outer space, sea-bed and ocean floor and Antarctica; Impact of Sea on the environment of man; oceanic resources and measures of their exploration and use.
 6. Indian Ocean
 - a. India and Indian ocean: patterns of strategic reality and external powers presence.
 - b. Indian ocean: Zone of peace or conflict.
 - c. Indian ocean resources and India's growing interests.
 - d. India's present and future responsibilities.
- D. Geostrategy , international relations and foreign policy-making.

Defence Studies B.A/ B.Sc. III

Practical

Sand model exercise of Arab-Israel War

Experimental & Written work	:	50 marks
Viva-voce	:	20 marks
Paper clipping (on national & international affairs) or Tour report	:	25 marks
Record	:	5 marks

