# University of Pune

## Defence and Strategic Studies

### Proposed Syllabus for T.Y. B.Sc.

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<th>Sr. No.</th>
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For both the semester following five courses will be compulsory. (Core Courses)

1. **DS – 331**: Science Technology and National Security  
   **DS – 341**: Management of Military Technology in India
2. **DS – 332**: Defence Economics  
   **DS – 342**: Economic Aspects of War
3. **DS – 333**: Study of Disaster  
   **DS – 343**: Disaster Management
4. **DS – 334**: Research Methodology  
   **DS – 344**: Project Report (Internal Departmental Paper)
5. **DS – 335**: Computer Application in Defence Management  
   **DS – 345**: Information Technology and National Security

Optional Courses: - Students should Choose anyone paper from each group. (Total Group 4 and Choose anyone from each group)

6. **DS – 336**:  
   A. Indian Military System (I)  
   B. Maratha Military System (I)  
   C. Indian War since Independence (I)  
   **DS – 346**:  
   A. Indian Military System (II)  
   B. Maratha Military System (II)  
   C. Indian War since Independence (II)
7. **DS – 337**:  
   A. Military Sociology  
   B. Defence Journalism  
   C. Defence Preparedness of India (I)  
   **DS – 347**:  
   A. Military Psychology  
   B. Defence Journalism and National Security  
   C. Defence Preparedness of India (II)
8. **DS – 338**:  
   A. Armed Conflict and Human Rights  
   B. International Organisation and National Security  
   C. International Law  
   **DS – 348**:  
   A. Refugees Studies  
   B. Study of United Nations  
   C. Laws of War and Peace
9. **DS – 339**:  
   A. Defence Management in India  
   B. Internal Security of India (I)  
   C. India’s Maritime Security (I)  
   **DS – 349**:  
   A. Management of Defence Production and Logistics in India  
   B. Internal Security of India (II)  
   C. India’s Maritime Security (II)

**Note:** - Students will be opting 5+4 = Total 9 courses per semester of T.Y.B.Sc.
T.Y.B.Sc. Semester – III.

(Core Paper) DS-331 Science, Technology and National Security.

Objective: - To appraise the student on role and application of Science and Technology in the accomplishment of National Security.

1. Introduction: - Evolution of Science and Technology. (5)
2. Relationship between Science and Society and Industrial Revolution. (5)
3. Development of Scientific and Technological Revolution in Military affairs and present application. (5)
4. Concept of Electronic Warfare and Military applications of Electronic Technology. (5)
5. Concept of Space Warfare and Military applications of Space Borne Assets. (5)
6. Concept of Information Warfare and Military applications & Information Technology. (5)
7. Development Trends in Defence Material. (5)
8. Promising & New Military Technologies. (5)

References:

Objective: - The tangible variables in any equation of Military Capability are absorption, assimilation and development of Military Technologies. Thus, objective of this paper is to know the management of technological know-how, expertise and proficiency of India in Military Technologies.

1. India: A rising global Power. (5)
2. Science and Technological Education in India. (5)
3. Understanding Military Technologies and Status of related R&D in India. (5)
4. Technology development and acquisition. (5)
5. Transfer of Technology and absorption. (5)
6. Application of first grade technology in the weapon development. (5)
7. Technology forecasting and option of dual use technologies. (5)
8. Strategic Management of Technology and future strategy. (5)

References: -

2) N. Vitthal and Dr. S. Mahalingam “Information Technology India’s Tomorrow”, Manas Publicaition, New Delhi – 2001.
4) Martin Van Creveld “Technology and War” Brassey’s Royal Military College of Science, United Kingdom, London, 1996.
T.Y.B.Sc. Semester – III.
(Core Paper) DS- 332 Defence Economics.

Objective:- To provide elementary knowledge pertaining to defence budgeting, planning and programming in India, inter-alia highlighting the trends in defence expenditure.

1. Salient features of Indian Economic System. (5)
2. Determinants of Defence Expenditure. (10)
   A. Threat Perception and Capabilities.
   B. Leadership.
   C. Ideology.
3. Defence Budget. (5)
   A. Planning and Programming.
   B. Structure of India’s Defence Budget.
   C. Parliamentary Control over Defence Budgeting.
4. Wartime Economy. (10)
   A. Sources of finance allocation of national resources.
   B. Techniques of control and rationing with reference to production, consumption and distribution.
   C. Importance of price control and rationing.
5. War Finance. (5)
   A. Meaning and Concept.
   B. Domestic.
   C. Foreign.
6. Economic Warfare. (5)
   A. Meaning and Concept.
   B. Scope of Economic Warfare.
   C. Significance in the Present Context.

References: -

Objective: To provide elementary knowledge pertaining to Economic Aspects of war like Peacetime Economy, Wartime Economy, War Potential and their Impact on War as well as inter-alia highlighting the related economic aspects which affects the war.

1. Peacetime Economy. (5)
   A. Meaning.
   B. Merits & Demerits of Peacetime Economy.

2. Wartime Economy. (5)
   A. Meaning
   B. Merits & Demerits of Wartime Economy.

3. War Potential. (5)
   A. Economic Elements of War Potential.
   B. Contributory Elements.

4. Effects of War on – (5)
   A. Economic Structure.
   B. Industry and Society.

5. Cost of War. (5)
   A. Economic Cost.
   B. Real Cost.

6. Analysis of India’s Defence Spending from 1962 to till date. (10)

7. Defence and Development. (5)
   A. Contrast.
   B. Linkages.
References:


Objective: - To have a proper understanding about disaster along with its nature, types and different warfare.

1. Disaster. (5)
   A. Meaning & Definition.
   B. Types of Disaster.
   C. Aim & Objectives of Study of Disaster.
   D. Need of Study of Disaster.

2. Natural Disaster. (10)
   A. Meaning.
   B. Characteristics.
   C. Nature and Types [Earthquake, Storm, Cyclone, Tsunami; etc.].
   D. Effects.

3. Manmade Disaster. (10)
   A. Meaning.
   B. Characteristics.
   C. Nature and Types [Terrorism, Medical Alteration, Street Accidents; etc.]
   D. Effects.

4. Environmental Disaster. (10)
   A. Meaning.
   B. Types [Pollution, Marine & Coastal area, Radioactive, Thermal]
   C. Global Warming.
   D. Population Burden.
   E. Effects of Environmental Disaster.

5. War and Disaster. (5)
   A. Traditional War & Disaster.
B. Chemical War & Disaster.
C. Biological War & Disaster.
D. Nuclear War & Disaster.

References: -

(Note: - References for DS – 333 & 343 are similar.)


Objective: - To provide elementary knowledge about the importance of disaster management and its spectrum. Also, to make aware about the different role of the people in the of disaster management.

1. Disaster Management. (5)
   A. Meaning & Concept.
   B. Elements.
   C. Organisational Set – Up
   D. Administration, R & D Contribution, NGO, Local – Self Government action.
   E. Information & Awareness.

2. Role of the Local Bodies. (10)
   A. Seeking Solutions.
   B. Role of Volunteers.
   C. Cooperation by Local Bodies.
   D. Professional Training, and Identified Disasters.

3. Possible Solutions. (10)
   A. Need for Technical Assistance.
   B. Planning and Enforcement.
   C. Boosting up The Morale of Community.
   D. Pre disaster Plan.
   E. Post disaster Emergency Phase.
   F. Rehabilitation & Reconstruction – Relief Work.

4. Remedial Measures. (10)
   A. Managing Disaster.
   B. Status of Development.
   C. Process of Settlement.
D. Assistance Package.
E. Collective Impact.
F. Required National Policy.
G. Psychological & Sociological Consequences.

5. Planning for Future. (5)
   A. Yokohama Message & Strategy.
   B. Important Principles.
   C. Plan for Actions.
   D. Follow up Actions.

References:

(Note: - References for DS – 333 & 343 are similar.)

Objective: - This paper will help the student to understand the significance of research, its methods, and process of research for new knowledge.

1. Introduction (15).
   A. Aim & Objectives of Research.
   B. Advantages of Research.
   C. Role of Research in important areas.
   D. Characteristics of Research.
   E. Significance of Research.
   F. Steps of Research.

2. Selection of Problem (5).

3. Hypothesis and Research Design (5).

4. Data Collection and Analysis (5).

5. Report Writing (10).
   A. Rationale of Research Report.
   B. Structure of Research Report.
   C. Important Precautions.

References: -

Objective: - Objective of Project Report is to encourage the students towards research and this will be the first step and orientation before going for further research in M.Phil. / Ph. D.

Instructions and Guidelines: - (40 Periods will be adjusted accordingly)

1. Students will be made aware on any one topic related to the subject.

2. Students will be guided on related hypothesis, research design and data collection and analysis.

3. Students will be guided to write the project report. They will be guided on drafting skill, footnotes and bibliography.

4. Two Copies of the project report should be submitted by the students (with typing and binding).

5. Evaluation of the project report will be done by the Internal Examiner, i.e. Guide for the students.

6. Marks will be given for project out of 40, and a viva voce will be conducted on the project theme and marks will be given out of 10.

7. After viva, one copy of project will be given back to the students and one copy will be retained by the department.
T.Y.B.Sc. Semester – III.

(Core Paper) DS- 335 Computer Application in Defence Management.

Objective: - To Provide Theoretical Knowledge about the role of computer in the management of National Security.

1. Introduction. (2)
2. Historical Evolution. (2)
3. Generations. (2)
4. Types. (2)
5. Classifications. (2)
6. Data Representations and Analysis. (5)
7. Applications in Defence Management. (10)
   A. C 4
   B. CAD
   C. CAM
   D. Operational Research
   E. Scientific Approach to :- (10)
      I. Pay Roll System.
      II. Medical Aspects.
      III. Development of Machine.
      IV. Weather Forecasting.
      V. Simulations and War Gaming.
8. Future Applications of Computer in Defence Management. (5)

References: -

1) James Schutlz. “Computer Offer Low Cost Readiness”.
2) C. R. Chakroborty. “Computer Oriented Activities – DRDO Prospection Plan”.
Objective: - To Provide Theoretical Knowledge about the role of computer and Information Technology, in the management of National Security.

1. Information Technology and its importance on National Security. (5)

2. Application of IT in Weapon System. (15)
   A. Night Vision.
   B. Surveillance.
   C. Decision Making.
   D. R & D Simulator.

3. Information Technology and its role in National Development and Security. (10)

4. Missile Defence System and Information Technology. (10)

References: -


Objective:- Aim is to literate the students about the Indian Art of Warfare and Strategic Thoughts.

1. Military History. (8)
   A. Meaning.
   B. Sources of Indian Military History.
   C. Necessity of Its Study.

2. Indian Military System. (7)
   A. Vedic.
   B. Ramayana and Mahabharata Period.

3. Battle of Jhelum. (5)
   A. Background.
   B. Battle and Its Analysis.
   C. Significance of Battle.

4. Kuatilya as Military Thinker. (10)
   A. His views on Defence & Security Affairs of the State.
   B. Significance and Relevance of his Thoughts to the present context.

5. Rajput Military System. (10)
   A. Rise of Rajput Power.
   B. Art of Warfare.
   C. Battle of Tarain.
   D. Merits and Demerits of Rajputs.

References: -


Objective: Evaluate the changes in terms of military system, organisation and art of warfare in military system of India.

1. Military System of Sultan. (10)
   A. Art of Warfare.
   B. Military Reforms by Allahuddin Khilji and Ghiasuddin Balban.
   C. Causes of Downfall.

2. First Battle of Panipat. (5)
   A. Background.
   B. Battle & Its Analysis.
   C. Significance in Indian Military History.

3. Third Battle of Panipat. (10)
   A. Background.
   B. Battle and Its Analysis.
   C. Significance in Indian Military History.

4. Mughal Military System. (10)
   A. Organisation.
   B. Weapon System.
   C. Art of Warfare.
   D. Battle of Haldighat.
   E. Causes of Decline of Mughals.

5. Indian Southern Empires. (5)
   A. Cholas.
   B. Vijayanagar.

References: -


Objective: - The aim of this paper is to analyse the role of Shivaji in relation to development of the Maratha Military System.

1. Maharashtra Region. (10)
   A. Geographical, Socio-religious & economic condition of Maharashtra before Shivaji.

2. Rise of Maratha Power. (5)
   A. Birth of Shivaji.
   B. Childhood of Shivaji & beginning of his Military Career.

3. Shivaji’s conflict with Adilshahi. (5)
   A. Jawali Incident and gains of Shivaji form Jawali.
   B. Battle of Pratapgad and its Analysis.

4. Shivaji’s conflict with Mughals. (10)
   A. Raid on Shahiste Khan.
   B. Campaign of Mirza Raje JaiSingh.
   C. Treaty of Purandar and its Significance.

5. Shivaji’s Karnataka Campaign. (5)
   A. Aim & Objectives.
   B. Cause of the Campaign.
   C. Gain of Shivaji form Karnataka Campaign.

6. Military System of Shivaji. (5)
   A. Organisation & Discipline.
   B. Forts.
   C. Art of Warfare.

References: -


T.Y. B.Sc. Semester – IV.

DS 346 (B) Maratha Military System. (II) (Optional)

Objective: - Aim of this paper is to highlight on how the changes were occurred in Maratha Military System after Shivaji.

1. Assessment of Shivaji. (5)
   A. Shivaji as a Military Leader.
   B. Shivaji as a Master of Guerilla Tactics.

2. Evaluation of Sambhaji. (5)
   A. Sambhaji as a Military Leader.
   B. Achievements of Sambhaji.

3. Maratha after Sambhaji. (5)
   A. Rajaram & Tarabai, and Struggle with Mughals.
   B. Role of Santaji and Dhanaji.

4. Military System during Peshwa period. (10)
   A. First Bajirao Peshwa as a Military General / Leader.
   B. Battle of Bhopal & IIIrd Battle of Panipat.
   C. Maratha Navy under Kanhoji Angre.

5. Maratha- Anglo Conflict. (10)
   A. First, Second and Third Anglo – Maratha War.
   B. Nature and Its Causes.
   C. Impact on Contemporary Maharashtra.

6. Causes of Downfall of Maratha. (5)

References: -


Objective: - To make aware the students about the Indo – Pak and India – China war along with essential details.

1. Indo – Pak War of 1947 – 48. (13)
   A. Background & Causes.
   B. Actual War & Affected Sectors.
   C. Ceasefire and Political Negotiations.
   E. Impact – Domestic, Regional & Global.

2. India – China War of 1962. (12)
   A. Background and Causes.
   B. Actual War and Affected Areas/ Sectors.
   C. Political Negotiations and Ceasefire.
   E. Impact – Domestic, Regional & Global.

3. Indo – Pak War of 1965. (15)
   A. Background and Causes.
   B. Actual War and Affected Areas/ Sectors.
   C. Political Negotiations and Ceasefire.
   E. Impact – Domestic, Regional & Global.

References: -

Note: - References for DS – 336 (C) and DS – 346 (C) are similar.


Objective: To literate the students about the role of the Indian Armed Forces for National as well as Regional Peace and Security.

1. Indo – Pak War of 1971. (13)
   A. Background and Causes.
   B. Actual War and Affected Areas/ Sectors.
   C. Political Negotiations and Ceasefire.
   E. Impact – Domestic, Regional & Global.

   A. Background and Causes.
   B. Actual War and Affected Areas/ Sectors.
   C. Political Negotiations and Ceasefire.
   E. Impact – Domestic, Regional & Global.

3. Important Military Operations other than Wars. (15)
   A. Maldives & Sri Lanka
      I. Aim & Objectives.
      II. Causes of India’s Action.
      III. Implications.

References: -

Note: - References for DS – 336 (C) and DS – 346 (C) are similar.


T.Y. B.Sc. Semester – III.

DS 337 (A) Military Sociology. (Optional)

Objective: To study the military community as a distinctive sociological phenomenon.

2. Military as a Rationally Disciplined Group (5).
3. Military as a Modernised Group (5).
4. Military as a Nationally Integrated Group (5).
5. Social Composition of Indian Armed Forces (5).
6. Social view of War and Soldiering in India (5).

References: -

T.Y. B.Sc. Semester – IV.

DS 347 (A) Military Psychology. (Optional)

Objective: - This paper is intended to study the military applications of Psychological principles on important aspects.

1. Introduction to Psychology (5).
2. Organizational Psychology and Military Psychology (5).
3. Psychological view of War and Soldiering (5).
4. Military Uses of Psychology (5).
5. Application and Role of Psychology in Military Motivation and Morale (5).
6. Application and Role of Psychology in Military Leadership (5).
7. Mental Toughening against War Neurosis, Combat Stress and Fear of Death (5).
8. Propaganda and Psychological Warfare (5).

References: -

T.Y. B.Sc. Semester – III.

DS 337 (B) Defence Journalism. (Optional)

Objective: - To make aware of the students about the role of media in the management of National Security. And the role as well as the responsibility of the Journalists. Also, provide knowledge how to be responsible Defence Journalist.

1. Introduction – Characteristics and Types. (5)
2. Defence and Media – Duties & Responsibilities of Journalists. (10)
3. Essential Information for Defence Journalist. (5)
4. Hurdles in Defence Journalism. (5)
5. Ingredients in Defence Journalism. (5)
6. Structure of the Defence Establishments in India. (5)
7. Scope of Future Defence Journalism. (5)

References: -

T.Y. B.Sc. Semester – IV.

DS 347 (B) Defence Journalism and National Security. (Optional)

Objective: - To make aware the students about the role of Defence Journalist in the management of National Security. And also highlight on current trends in Defence Journalism.

1. Introduction. (5)
2. Military vs. Media. (5)
3. Defence Journalism and Media Ethics. (10)
4. Defence Journalism and Conflict Management. (10)
5. Current trends in Indian Defence Journalism. (5)
6. Problems & Prospects in Defence Journalism. (5)

References: -

3) D. S. Mehta. “Mass Communication and Journalism In India”.
4) B. G. Varghese. “Indian Journalism”.
5) Military Year Book (Annual).
T.Y. B.Sc. Semester – III.

DS 337 (C) Defence Preparedness of India. (I) (Optional)

Objective: - To make aware the students about war potential of India in a comprehensive manner.

1. India’s Land and Maritime Boundaries – Geopolitical Evolution. (10)
2. India & Neighbours – Issues / Security Problems. (10)
3. India’s War Potential. (10)
   A. Political will and Strategic culture.
   B. Science and Technology – Status & Future.
   C. Economic Condition.
   D. Defence Industries – Present Status & Future.
   E. Socio – Cultural Factor: Harmony & its Status.
4. Defence & Development in India. (10)
   A. Contrast between Defence and Development.
   B. Relationship between them (Defence & Development).
   C. Actual allocation and its practice/ applications.

References: -

4) “India’s Maritime Security”, By Rahul Chowdhary.
5) “Defence Budgeting and Planning in India”, By Amiya Kumar Ghosh., Publication as mentioned above.
7) “India at 60: -A Rediscovery”, By P. K. Budhwar, Manas Publications.


10)“Nuclear India”, By Air Commodore Jagjit Singh., Publication as mentioned above.

11)“Geography of India”, Nirmal Bhattacharya and Vidya Ramamurthy.

12)“Indian Navy & South East Asia”, Knowledge World Publications, New Delhi.

13)“India’s Maritime Security”, Publication as mentioned above.


16)“India – China Relations” By Dr. M. L. Sali., A. P. H. Publications, New Delhi, 2009.

T.Y. B.Sc. Semester – IV.
DS 347 (C) Defence Preparedness of India. (II) (Optional)

Objective: - To literate the students about the present status of India’s Defence Preparedness as compare to her adversary.

1. Army. (10)
   A. Commands & Responsibilities.
   B. Strength, Weapon System & Present Status.
   C. Process of Modernisation & Achievements.

2. Navy. (10)
   A. Commands & Responsibilities.
   B. Strength, Weapon System & Present Status.
   C. Process of Modernisation & Achievements.

3. Air Force. (10)
   A. Commands & Responsibilities.
   B. Strength, Weapon System & Present Status.
   C. Process of Modernisation & Achievements.

4. Comparison. (10)
   A. Indo – Pak War Potential.
   B. India –China War Potential.

References: -


4) “Defence Budgeting and Planning in India”, By Amiya Kumar Ghosh., Publication as mentioned above.

6) “India at 60: -A Rediscovery”, By P. K. Budhwar, Manas Publications.


9) “Nuclear India”, By Air Commodore Jagjit Singh., Publication as mentioned above.

10) “Geography of India”, Nirmal Bhattacharya and Vidya Ramamurthy.


12) “India’s Maritime Security”, Publication as mentioned above.


Objective: - The aim is to provide elementary knowledge about the different spectrum of human security and the rights of the people within and without state. Such elementary knowledge is useful to the security personnel while tackling law and order problem.

1. Introduction to International Humanitarian Studies. (5)
2. Introduction to Human Rights. (5)
3. Theories and Principles of Human Rights. (10)
4. International Relations, Democracy and Human Rights. (10)
5. Armed Conflicts and Protection of Defenceless Victims. (10)
   A. Protection of Civilians.
   B. Wounded and Sick Soldiers.
   C. Prisoners of War.
   D. Combatant/ International Humanitarian Laws and Laws of Armed Conflict.

References: -

1) “UNCHR – The State & The World’s Refugee Fifty Years of Humanitarian Actions”
2) “International Law” By S. K. Kapoor.
Objective: - The aim is to provide elementary knowledge about the different spectrum of human security and the rights of the stateless peoples. This paper highlights on a comprehensive study of Refugee.

1. Refugee. (10)
   A. Meaning and Definition.
   C. Stateless Person.

2. Problems of Refugees. (10)
   A. Causes of Migration.
   B. Population in Border areas and Border Security.

3. Rights and Duties of Refugees. (10)

4. Refugee Law’s and UNCHR. (5)

5. Refugee Problems and South Asia. (5)

References: -


2) “Refugee Law & UNCHR”, Published by IIHR, New Delhi, 2000.


Objective: - To provide elementary knowledge about the organizational structure of international organisation and its role in the management of National, Regional and International Security.

1. Evolution of International Organisations. Concept and History. (5)

2. League of Nation. (10)
   A. Treaty of Versailles and Creation of League.
   B. Structure.
   C. Nature of Function.
   D. Survey of its Work.
   E. Causes of its Failure.

3. United Nations, (5)
   A. Origin & Structure.
   B. Principles Organs of UN and their Functions.

4. The UN Role in International Peace & Security. (20)
   A. Pacific Settlement.
   B. Enforcement Action.
   C. UN Peace Keeping.

References: -


T.Y. B.Sc. Semester – IV.

DS 348 (B) Study of United Nations. (Optional)

Objective: - To highlight on role of UN in maintaining global peace and security along with non – political functions and achievements.

1. Specialized Agencies of U.N. (10)
   B. Role of U.N. in the field of Economic & Social Issues.

2. U.N. and Human Rights. (5)

3. Role of U.N. in International Conflict. (10)

4. Role of U.N. in Disarmament. (5)


References: -


Objective: - To provide elementary knowledge about the different rules and law framed by the international organization (UNO). Such Knowledge is essential, for States to maintain foreign trade, defence and foreign relations and conducting a war against belligerent States.

1. Introduction. (10)
   A. Definition and Nature.
   B. Scope & Sources of International Law.
   C. Historical Development.
   D. Subjects of International Law.

2. Conflicts & Human Rights. (5)
   A. U.N. Charter.
   B. Universal Declaration of I.H.R.

3. Control of International Conflicts. (10)
   A. U.N. Charter.
   B. U.N. Peacekeeping.
   C. Diplomatic Procedure.

4. International Law related to War. (10)
   A. Hange Conventions.
   B. Geneva Conventions.

5. Nuclear, Chemical & Biological Warfare. (5)

References: -


Objective: To provide elementary knowledge about the different rules and law framed by the international organization (UNO). Such knowledge is essential for States to maintain the foreign trade, defence and foreign relations and conducting war.

1. Laws of Peace. (25)
   A. Types of States.
   B. Recognition of States.
   C. State – Succession.
   D. Intervention.
   E. Right of Self - Defence.
   F. Wartime Laws & Conventions.

2. Laws of War. (15)
   A. Settlement of Dispute.
   B. The Laws of War.
   C. Land Warfare.
   D. Sea Warfare.
   E. Air Warfare.

References: -


Objective: - To appraise the students with the application of management practices in the Armed Forces.


2. Applicability of Management in Armed Forces. (5)

3. Similarity of Industrial and Military Concept on Management. (5)

4. Principles of Management. (5)

5. Application and Strength of War Principles in Corporate Management. (5)

6. Human Resource Management in Armed Forces. (5)

7. Team Building in Armed Forces. (5)

8. Role of Leadership in the Defense Management and Development of Battle Dynamism in the current scenario. (5)

References: -


4) Mishra H. B., Defence Management of India, Author Press, New Delhi, 2000

Objective: - Aim of this paper is to appraise the students about Defence production and logistic element in India.

1. Rationale of Defence Production in India. (5)

2. Role of Defence Production in National Development. (5)

3. Structure of Defence Production. (5)
   A. Role and Functions of Department of Defence Production and DRDO.
   B. Ordnance Factories – Its Highlights,
   C. Management of DPSU, Foreign Collaboration & Private Sector.

4. Principles of Logistics. (5)

5. Just in Time Concept. (5)

6. Supply Chain Management. (5)

7. Mobilisation of Logistic Elements for War. (5)

8. Management of Integrated Defence Logistics. (5)

References: -


5) Annual Reports of the Ministry of Defence, Government of India.

Objective: - To literate the students about the basic concept of Internal Security along with relevant dimensions of it.

1. Internal Security. (12)
   A. Meaning & Elements of The State.
   B. Role of The State in Human Security.
2. Different Dimension of Internal Security. (13)
   A. Socio-ethnic.
   B. Political.
   C. Economic.
   D. External Abetment.
3. Case Studies in India. (15)
   A. Kashmir Problem.
   B. Naxalite Problem.
   C. Agitations over Economic/Developmental Issues (including SEZ).
   D. Agitations over Religious and Caste Issues.
   E. Security Challenges to North – East Region of India.

References: -


Objective: - To make aware the students about the present internal security challenges of the country.

1. Internal Security Challenges to India: An Assessment. (20)
   A. Cross – Border Terrorism.
   B. Secessionist Movements.
   C. Insurgency Problem.

2. Approaches / Response to the Problem of Internal Security. (20)
   A. Role of the Central Government.
   B. Role of the State Government.
   C. Role of Force.
   D. Role of the Media.
   E. Role of N. G. O.’s.

References: -


T.Y. B.Sc. Semester – III.

DS 339 (C) Maritime Security of India. (Optional)

Objective: - To provide different aspects of maritime resources and their importance to National Economy and in the management of National and Regional Security.

1. Maritime Security/ Environment. (20)
   A. Brief History of Oceans.
   B. Concept of Maritime Boundaries / State.
   C. Concept of Territorial Sea, Contiguous Zone, Continental Shelf, Exclusive Economic Zone, High Seas.

2. Role of the Maritime Elements / Assets. (10)
   A. Fixed Assets: - Ports and Infrastructure Therein.
   B. Naval bases, Oil Rigs and Exploration Platform, Light Houses and Navigational Aids.

3. Role of Navy & Coast Guard. (10)
   A. Role of Sea Power.
   B. Economic, Political & Military, etc..

References: -

T.Y. B.Sc. Semester – IV.

DS 349 (C) India’s Maritime Security. (Optional)

Objective: - To make aware the students about the strategic environment in Indian Ocean and its relevance to Indian Maritime Security.

1. Indian in the Oceanic System. (5)

2. Indian Ocean – Strategic Significance, Strategic Environment and its relevance to India’s Security. (10)

3. India’s Maritime Threats. (10)
   A. Threat to Maritime Trade - Example of Terrorist Groups, LTTE, Piracy, Human Trafficking, Drugs.
   B. Threat to Shopping – Oil Tankers, LPG & LNG Carriers, Cyber Threat.

4. Major Power Rivalry in the Indian Ocean. (10)
   A. Policies of U.S.A.
   B. Policies of China.
   C. Policies of Britain.
   D. Policies of Pakistan.
   E. India’s Indian Ocean Policy.

5. Indian Ocean as a Zone of Peace: Concept, Problems and Dimensions. (5)

References: -


