

**CHHATRAPATI SHAHU JI MAHARAJ UNIVERSITY
KANPUR**

REVISED POST- GRADUATE CURRICULUM

DEFENCE AND STRATEGIC STUDIES

2018

M.A./M.Sc. PREVIOUS

Paper I, II, III and V are compulsory One optional paper shall be offered from IV(a), (b) and (c).

Paper-I	-	Western Military History
Paper-II	-	Military Psychology
Paper-III	-	National Security
Paper-IV (a)	-	Military Geography and World Problems
		Or
IV (b)	-	Economic Aspects of War
		Or
IV (c)	-	Military Journalism
Paper-V	-	Practical

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PAPER-I WESTERN MILITARY HISTORY

Unit-I Greco-Roman Period

- (a) Battle of Arbela 331 BC
- (b) Battle of Adrianople 378 AD

Unit-II Rise and fall of the Middle ages

- (a) Battle of Hastings 1066
- (b) Battle of Crecy 1346
- (c) Fall of Constantinople 1453

Unit-III Age of Mass Armies

- (a) Battle of Trafalgar 1805
- (b) Battle of Leipzig 1813
- (b) Battle of Waterloo 1815

Unit-IV Rise of Imperialism

- (a) American Imperialism & American Civil War 1862-65
- (b) Japanese Imperialism & Siege of Port Arthur 1904-05

Unit-V Era of Total War

- (a) Foundation of world war I, Treaty of Versailles
- (b) Rise of Nazism; Origins of world war II
- (c) World war II in retrospect

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2. Mishra, S.K. : Sansar Ke Prasidhha Yuddha
3. Fuller, J.F.C. : The decisive Battle of the Western World Vol. 1, 2 & 3
4. Birnie, Arther : Art of War
5. ----- : The Cambridge History Ancient, Medieval, Modern
6. Koch, H.W. : Origins of World War-I
7. Hart, Liddel : History of World War I & II
8. Montgomery : A history of Warfare

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PAPER-II MILITARY PSYCHOLOGY

Unit-I Introduction

- (a) Psychology as Behavioural Science
- (b) Functions and Problems
- (c) Relevance in Defence Problems

Unit-II Selection of Soldier

- (a) Individual Differences; its importance
- (b) Vocational Fitness; Right Soldier for the Right Job
- (c) Methods of Selection-Job Analysis, Interview

Unit-III Application of Psychological Principles in Training

- (a) Learning - Methods and Theories
- (b) Motivation - Kinds, incentives, During War and Peace, Motives
- (c) Fatigue - Nature, causes, boredom, monotony, work duration, rest pause

Unit-IV Fighting Skills

- (a) Morale-Type, contributing factors, assessment, Regimental conditions
- (b) Leadership - Definition, types and function
- (c) Discipline - necessity, use
- (d) Emotions - nature, theories, psycho-physical changes
- (e) Measurement of Personality and Intelligence

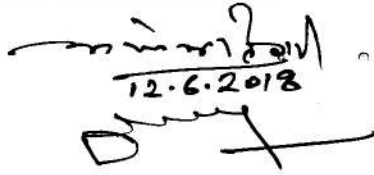
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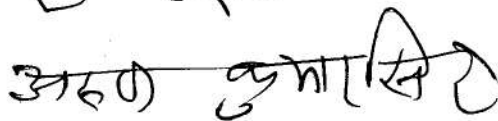
Unit-V Mental Health of Combatants

- (a) Its relation to fighting capability
- (b) Problem soldiers
- (c) Dissertation - causes, remedies

REFERENCE BOOKS

1. Tiwari N.P. : Sainya Manovigyan
2. Tiwari N.P. : Manovaigyanik Yuddh Sankriya
3. Boring E.G. : Psychology for the Armed Forces
4. Bartlett : Psychology and the Soldier
5. Mark A May : Social Psychology of War and Peace
6. Morgan, King : Introduction to Psychology
7. Coleman, N.C. : Abnormal Psychology and Modern Life
8. Devison, Neale : Abnormal Psychology
9. Brown : Psychodynamics of Abnormal Behaviour
10. Jain, Pushpa : Samanya Manovigyan
11. Parikh : Sainik Manovigyan
12. Mrs. Suman : Asamanya Manovigyan


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PAPER-III NATIONAL SECURITY

Unit-I Theories and Concepts

1. Defence and Strategic Studies : Assumptions and Approaches
2. (a) The concepts of Nation, State and Nation-State (b) Theories and elements of State (c) National Power and its components.
3. (A) Key concepts of security: (a) National Security (b) Regional Security (c) Comprehensive Security (d) Common Security (e) Equal Security.
(B) National Security objectives: Core values, National interests.
(C) Challenges to Security: Individual, Sub-National; National, Regional and International levels.

Unit-II National Security Organizations in India

1. Higher Defence Structure in India
2. National Security Council
3. Para-military and civil defence
4. Civil-military relations.

Unit-III Problems of Peace & Security

1. Military alliances and pacts, Peace treaties, Defence cooperation, strategic partnership and security dialogue.
2. Problem of system of Governance and Human Rights.
3. Terrorism: Concept and kinds (National, International. and Cross border).
4. Conflicting Ideologies: Militarism, Nationalism, Fundamentalism, Separatism, Irredentism.

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Unit-IV Economics, Science & Technology Issues and National Security

1. Broad Survey of Technological changes from Industrial revolution to information revolution.
2. Economic Theories of Defence
3. (a) Basics of Defence Planning (b) Determinants of Defence Expenditure and defence budgeting.
4. National Security and International Trade regimes (WTO, TRIPS, TRIMS, NAFTA, SAPTA).
5. Impact of economic liberalization and globalization.
6. Issues of mobilization of resources during war and peace.
7. Transfer of Technology: Dual use and critical technologies and their impact on national security.

Unit-V India's Nuclear and Space Power Programmes

1. India's Energy Scenario
2. Research and Development: Relevance of Science and Technology in National Security
3. Impact of information technology: Revolution in Military Affairs (RMA)
4. Choice of Weapon Systems
5. India's Missile Programme

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REFERENCE BOOKS

1. Singh, Ashok Kuamr : Rastriya Surksha Ke Badalte Ayam
2. Singh, Ashok Kumar : Rasrtiya Surksha
3. Singh, Lallan, Ji : Rastriya Raksha Evam Surksha
4. Pandey, R.S. : Rastriya Surksha evam
Antarrashtriya Sambandh
5. Singh, Birpal : Rastriya Raksha Evam Surksha
6. Singh, R.K. : Rastriya Surksha
7. Anand, V.K. : Insurgency and Counter-I Insurgency
8. Agarwal, B.K. : Nagaland in Transition
9. Bandopadhyay : Making of Indian Foreign Policy
10. Chaterjee, P.N. : Indian Land Borders; Problem and
Challenges
11. Cohen, S.P. : The Indian Army
12. Dalvi, J.P. : Himalay Blunder
13. Gupta, R. : Indian Ocean Political Geography
14. Handa, R. : Policy for India's Defence
15. Gupta, S. : Kashmir: A study in India Pakistan
Relations
16. Jain, J.P. : Nuclear India
17. Sinha, Subramanian : Nuclear Pakistan
18. Pant, P. & Jain, Sripal : Antarrashtriya Rajneeti

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**PAPER-IV(a) MILITARY GEOGRAPHY AND WORLD
PROBLEMS**

Unit-I Geo strategy and Geopolitics

- (a) Concept
- (b) Elements
- (c) Scope

Unit-II Geography Influencing Defence Policies

- (a) Actual / Potential Threat to Territorial Extent
- (b) Established Areas of Interest
- (c) Dissidence a elimination and exploitation

Unit-III The Geonomic Problems

- (a) Strategic and Critical Material
- (b) Defence Industries
- (c) Defence Technology

Unit-IV Geographical Conditions and Military Affairs

- (a) Alliances
- (b) International Cooperation
- (c) Blockade

Unit-V Mobilisation of Material Resources

- (a) Natural and Cultural Resources
- (b) Human Resources

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REFERENCE BOOKS

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2. Singh, Ashok Kumar : Raksha evam Strategic Adhyayan
3. Singh, Birpal : Pratiraksha evam Kootneetik Adhyayan
4. Zimmermann, E.W. : World Resources and Industries
5. Prescott, J.R.V. : Geography of State Policies
6. Peltier & Percy : Military Geography
7. Thomas, P. Raju, G.C. : The Defence of India
8. Aron, Raymond : The Century of Total War
9. Davis, D.R. : The Earth and Man
10. Firgriv, J. : Geography and World Power
11. Furness & Brookings : World Minerals and World Peace
12. Murstfield, J. : The Control of Raw Materials
13. Johnson, D.N. : Topography and Strategy in War
14. Medlicott, W.N. : The economic Blockade
15. Parker, H.M.D. : Manpower-A study of wartime Policy & administration
16. Karan, M.P. : Sansadhan Bhoogol
17. Gupta, P.R. : Sainya Bhogol
18. Gupta, P.R. : Strategic Geography

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PAPER-IV (b) ECONOMIC ASPECTS OF WAR

Unit-I Introduction

- (a) Concepts
- (b) Natural Resources and War Management
- (c) Natural Calamities and War Potential
- (d) Economic and Defence Planning

Unit-II Defence Budgeting

- (a) Determinants
- (b) Allocation of Resource
- (c) Factors Affecting Choice of Weapon Systems
- (d) Economics of Military Expansion - Conventional / Nuclear

Unit-III Mobilisation of Resources

- (a) Domestic Resources - Taxation, Borrowing, Inflation, Deficit Financing
- (b) Foreign Resources - Foreign Trade, Foreign Investments through Government Agencies, Import of Technology for Defence.
- (c) Wartime Mobilisation - Priority Transfer of Private Sector to Defence, Mechanism of control, Price control and Rationing.

Unit-IV Economic Warfare

- (a) Scope and Content
- (b) Denial of Resources
- (c) Balance Payments
- (d) Foreign Aid

Unit-V Post-War Reconstruction

- (a) Regeneration of Resources
- (b) Problem of Reconstruction and Rehabilitation

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REFERENCE BOOKS

1. Singh, Ashok Kumar : Raksha Arthshastra Ke Ayam
2. Singh, Birpal : Pratiraksha Arthashastra
3. Klaus, Knorr : The War Potential of Nations
4. Klaus, Knorr : Power and Wealth
5. Schlesinger, J.R. : The Political Economy of National Security
6. Jack, D.T. : Studies in Economic Warfare
7. Hitch, C.J. and Roland : The Economics of Defence in Nuclear Age
8. Clark John J. : The New Economics of National Defence
9. Robbins, Lionell : The Economic Problem in Peace and War
10. Hawtrey, R.G. : Economic Aspects of Sovereignty
11. Hajela T.N. : Public Finance

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PAPER-IV(C) MILITARY JOURNALISM

Unit-I Introduction to Military Journalism

- (a) Principles of Journalism
- (b) Functions of Journalistic Media as part of Mass Communication
- (c) Press Council and Press Commission
- (d) History of Military Journalism in India after 1947

Unit-II Press Laws

- (a) Press Freedom Rights
- (b) Restriction under the Constitution
- (c) Contempt of Court Regulations
- (d) Defamation Proceedings
- (e) Copy Right and Defence Secrets Act

Unit-III News Reporting

- (a) What is News
- (b) Military News and Civil News
- (c) Responsibilities of a War Correspondant

Unit-IV News Editing I

- (a) General Principles
- (b) Functions and Qualification of Editors
- (c) Exposure - Special report and Scoop

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Unit-V News Editing II

(a) Duties and Responsibilities of Editors

(b) Rights of a Military Editor

(c) Censorship

REFERENCE BOOKS

1. Puri, G.K. : Journalism
2. Heinemann : The Practice of Journalism
3. David, Wainwright : Journalism
4. Lloyd : The Legal Limits of Journalisms
5. McWae : Essential Law of Journalists
6. Smith : Press Laws
7. Baynes : Scoop Scandal and Strife
8. Jacop : Stop Press
9. Nyent : Biography of a Newspaper
10. Walker : Powers of the Press

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PAPER-V PRACTICAL

[A] Test

- (a) Interest
- (b) Intelligence
- (c) Personality

[B] Experiments

- (a) Learning-Trial & Error Method, Bilateral Transfer
- (b) Reaction Time
- (c) Span of Apprehension

[C] Military News Report on Current National & International Issue

[D] Slope Analysis and Route Determination on the Map

- (a) Hilly region
- (b) Remote sensing
- (c) Viva-Voce & Sessional Work

REFERENCE BOOKS

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|-----------------------------|---|-------------------------|
| 1. Woodworth and Schlosberg | : | Experimental Psychology |
| 2. Verma, Preeti | : | Prayogatmak Manovigyan |
| 3. Singh, A.K. | : | Experimental Psychology |
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DEFENCE & STRATEGIC STUDIES

2018

M.A./M.Sc. FINAL

Paper I, II, III and V are compulsory- One optional paper shall be offered from IV(a), (b), (c) and (d)

Paper-I	-	Development of Military Doctrine
Paper-II	-	International Security Environment
Paper-III	-	Arms Race and Prevention of War
Paper-IV (a)	-	Research Methodology
		Or
IV (b)	-	Law s of War and Peace
		Or
IV (c)	-	Recent Military Innovations
		Or
IV (d)	-	Dissertation
Paper-V	-	Practical

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PAPER I- DEVELOPMENT OF MILITARY DOCTRINE

Unit-I Upto 19th Century

- (a) Vauben - Science and War
- (b) Fredrick the Great - National Wars
- (c) Adam Smith - War Economics

Unit-II Upto First World War

- (a) Mackinder - Concept of the Heartland
- (b) Moltke - the Prussian School of Thought
- (c) Schlieffen - Theory of Encirclement
- (d) Foch - Principles of War

Unit-III Between the Two Wars

- (a) Ludendorff - Total War
- (b) JFC Fuller - Mobile Warfare
- (c) Haushofer - Geopolitics

Unit-IV After Second World War

- (a) Henry Kissinger - Nuclear Doctrine
- (b) Harkabi - Nuclear Age

Unit-V Modern Theories in Nuclear Age

- (a) Deterrence
- (b) Disarmament and Arms Control

(c) Nonalignment

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REFERENCE BOOKS

1. Singh, Ashok Kumar : Adhunik Strategic Vichardhara Macheavili Se Parmanu yug tak
2. Hart, Liddel : The Strategy of Indirect Approach
3. Beaufre, Andre : Strategy of Action
4. Singh, Lallan Ji : Strategic Vicharak
5. Pandey, R.S. : Strategic Vichardhara
4. Halperin, M.H. : Contemporary Military Strategy
5. Howard, M. : Theory and Practice of War
6. Tung & Guevara : Guerilla Warfare
7. Kahn, J.M. : Security in the Nuclear Age
8. Dougherty, J. : How to Think About Arms Control & Disarmament
9. Hart, B.H.L. : Deterrence of Defence
10. Brown, H.E. : Deterrence Failure and Deterrence Strategies
11. Jauhri, R.C. : Pashchatya Sainya Vicharak
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13. Harkabi, Y. : Nuclear War and Nuclear Peace
14. Kissinger, H.A. : Problems of National Strategy

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PAPER-II INTERNATIONAL SECURITY ENVIRONMENT

Unit-I Global Security Issues

1. End of cold war and emergence of new world order.
2. Military, nuclear and missile capabilities of China, Pakistan and India.
3. Environmental issues: Global warming, desertification, Acid rains, Industrial Pollution, deforestation.

Unit-II Military Geography and Defence Problems

1. Geo-strategy and Geo-Politics
2. Sino-Indian and Indo-Pak Border disputes and India's continental strategy with her neighbours.
3. Sri Lankan Ethnic conflict, Domestic unrest in Afghanistan, West-Asian Crisis, Development in Central Asian Republics, Ethnic Issues in Yugoslavia, Crisis in Chechnia
4. Organized Crimes: Money Laundering, Narco-trafficking

Unit-III Indian Ocean Region

1. Militarisation of Indian Ocean and India's national, maritime and security interests in the Indian Ocean region. India's Maritime Strategy for the 21st Century.
2. Issues of Logistics : Resources, Supply chain, Transportation and Communication.
3. Problems of refugees : (a) Causes of migration (b) Population in border areas and border security.

Unit-IV Issues in Conflict Resolution

1. Origin, type and structure of conflict at inter-state level.
2. Images, belief systems and International conflicts.
3. Techniques of conflict prevention

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4. Conflict management: Pacific solution of International Disputes, Coercive methods and war as an instrument.

Unit-V Contemporary Problems of War

1. Regional Conflicts
2. Laws of Armed conflicts
3. Role of United Nations Organization
4. Restructuring of UNO

REFERENCE BOOKS

1. Singh, Ashok Kumar : Antarrashtriya Sambandh Tatha Raksha evam Samrik Addhyayan
2. Singh, Ashok Kumar : Antarrashtriya Rajneeti Tatha Raksha Addhyayan
3. Pant, P. Jain, Sripal : Antarrashtriya Rajneeti
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11. Gibbs, G. : Problems of International Relations
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PAPER- III ARMS RACE AND PREVENTION OF WAR

Unit-I Arms Race

- (a) Concept, origin and necessity
- (b) Between Regional Powers
- (c) Spread of Nuclear Weapons
- (d) Impact on Security Doctrine

Unit-II Arms Control

- (a) Necessity and Feasibility
- (b) Various Efforts - Partial Test Ban, NPT, SALT
- (c) Diplomacy Armaments: Arms Race, Arms Aid, Arms Trade & Arms proliferation

Unit-III Disarmament

- (a) Concept, objectives and conditions
- (b) Types - General and Complete Disarmament, Unilateral, Multilateral; Partial
- (c) India and disarmament

Unit-IV Various Efforts of Disarmament

- (a) Under the auspices of UNO
- (b) Through Bilateral Talks - START, INF

Unit-V Future Perspectives

- (a) International Terrorism
- (b) Drugs and narcotics trafficking
- (c) Survival of Man on Earth

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1. Singer, J.D. : Deterrence, Arms Control & Disarmament
2. Headly Bull : The Concept of Arms Race
3. Baker, Philip Noel : The Arms Race
4. Maddox, L.B. : The Spread of Nuclear Weapons
5. Backakai, T. : The Armament Race & The Developing Countries
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7. Gray, Colin S. : The Soviet-American Arms Race
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9. Mayer : Understanding Nuclear War & Arms Control
10. Turner : The Arms Race
11. Wolfe, Thomas W. : The Salt Experience
12. IDSA Publication : On the above topics

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PAPER-IV(a) RESEARCH METHODOLOGY

Unit-I Meaning of Scientific Research

- (a) Scientific Method - Basic Assumptions
- (b) Steps in Scientific Research

Unit-II Formulation of Hypothesis

- (a) Definition and need
- (b) Kinds of Hypothesis
- (c) Sources of Hypothesis
- (d) Framing

Unit-III Research Design

- (a) Survey Research
- (b) Field Studies
- (c) Laboratory Experiment
- (d) Sampling

Unit-IV Data collection and Presentation

- (a) Method - Interview, Questionnaire, Schedule, Observation, Content Analysis
- (b) Processing of Data - Classification, Tabulation, frequency distribution
- (c) Graphic and Diagrammatic Representation

Unit-V Analysis and Interpretation of Data

- (a) Mean, Median, Mode
- (b) Standard Deviation, Quartile Deviation, Correlation Coefficient
- (c) Verification of Data and Writing Project Report

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REFERENCE BOOKS

1. Brown & Ghiseli : Scientific Method
2. Goodde & Hart : Mehods in Social Survey and Research
3. Young : Scientific Social Survey and Research
4. Whitney : Elements of Research
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8. Bhatnagar & Rai : Shodh Parichaya
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PAPER- IV(b) LAWS OF WAR AND PEACE

Unit-I

- (a) Definition, nature and scope of War and Peace
- (b) Historical development - India, Greece, Rome
- (c) Codification of the Laws and peace since 1919

Unit-II

- (a) Sovereign States and Law of Piracy
- (b) Laws concerning recognition of State, Insurgency, Belligerency, succession, intervention

Unit-III

- (a) Laws concerning territory and jurisdiction on Land, High Seas, Air and Outer Space
- (b) Laws concerning declaration of war, its effect on laws of Land, maritime and aerial warfare, treatment of prisoners of war.

Unit-IV

- (a) Settlement of International Disputes role of UN International Adjustment, International Court of Justice.
- (b) Rupture of Diplomatic relations, blockade guerilla activity

Unit-V

- (a) Laws of Peace-conclusion of war, restoration of normalcy
- (c) Neutrality and working of world body

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1. Fenwick : International Law
2. Fadia, B.L. : Antarrashtriya Vidhi
3. Lawrence : International Law
4. Oppenheim : International Law
5. Svarhein : Introduction to the Law of Nations
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PAPER-IV(C) RECENT MILITARY INNOVATIONS

Unit-I Introduction

- (a) Impact of Science and Technology on War
- (b) Mechanisation of Modern Wars
- (c) Extension and role Atom in War and Peace
- (d) Fission, Fusion and Bombs

Unit-II Detection Techniques

- (a) Human Sense, Target Emission, Infra-Red
- (b) Radar- Its uses in war and peace
- (c) Sonar - Importance in underwater detection, Anti -Submarine Warfare(ASW)
- (d) Basic principles of Lasers and Target. Tracking

Unit-III Electronic Warfare

- (a) Reconnaissance Satellites
- (b) Remote and use of Computer for defence
- (c) Command, control, communication and Intelligence and counter-measures (C3IM)

Unit-IV Space Technology

- (a) Militarisation of Outer Space
- (b) Anti-satellite warfare (ASAT)
- (c) India's achievements

Unit-V New Devices of Warfare

12.6.2018
3760 JNTA
Dr. J. S. Chaudhary
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J. S. Chaudhary
Dr. J. S. Chaudhary

REFERENCE BOOKS

- 1 Rodgers, Fowler : Surveillance and Target Acquisition System
- 2 Military Pub, USSR : Star War Delusions and Dangers
- 3 Barnby : Automated Battlefield
- 4 Mir Pub, Moscow : The Night After
- 5 Paranjpe, S.K. : US Nonproliferation Policy in Action
6. Poulouse, T.T. : Nuclear Prolifpration and Third World
- 7 Arkin : Nuclear Battlefield
- 8 Wollicox, A.M. : Command, Control and Communication
- 9 Morris, M. : Communication for Command and Control
10. Strealy, M. : communication for Command and Control
11. O Svelto : Principles of Lesers
12. Miller : Modern Submarines
13. Shake, M. : War Without men
14. Lin, Herbert : New Weapons Technology ABM Treaty
15. Paradae, K.C. : The Future of Space

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PAPER-IV(D) DISSERTATION

Note- Any candidate who has secured not less than 55% of marks in his/her M.A./M.Sc. (Previous) examination shall be considered eligible for dissertation paper, but for this option he/she shall have to obtain the permission of the Head of the Department of Defence and Strategic Studies of his/her College.

Dr. Kumar 12.06.2018

Dr. S. S. Chahal

S. S. Chahal

PAPER-V PRACTICAL

[A] Plain table survey and sketching

Or

Tour Report to different defence establishment and geo strategic areas.

[B] TEWT- Defence/Withdrawl

[C] Preparation of Sand Table (Students should prepare individually/groups)

[D] Viva-Voce

[E] Record

M.A./M.Sc. (FINAL)

PRACTICAL MARKING SCHEME

SHALL BE AS FOLLOWS

A	20
B	25
C	15
D	15
E	15
Total	100

JS. Chakraborty
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