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).

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<td>Paper-I</td>
<td>Western Military History</td>
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<td>Paper-II</td>
<td>Military Psychology</td>
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<td>Paper-III</td>
<td>National Security</td>
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<td>Paper IV (a)</td>
<td>Military Geography and World Problems</td>
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<td>IV (b)</td>
<td>Economic Aspects of War</td>
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<td>IV (c)</td>
<td>Military Journalism</td>
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<tr>
<td>Paper-V</td>
<td>Practical</td>
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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
REFERENCE BOOKS

1. Singh, Lallan Ji : Pashchatya Sainya Itihas Evam Yuddhakala
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
7. Hart, Liddel : History of World War I & II
8. Montgomery : A history of Warfare
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
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
8. Devison, Neale : Abnormal Psychology
10. Jain, Pushpa : Samanya Manovigyan
11. Parikh : Sainik Manovigyan
12. Mrs. Suman : Asamanya Manovigyan

[Signature]
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.
Unit-IV  Economics, Science & Technology Issues and National Security

1. Broad Survey of Technological changes from Industrial revolution to inform action revolution.
2. Economic Theories of Defence
3. (a) Basics of Defence Planning (b) Determinants of Defence Expenditure and defence budgeting.
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
REFERENCE BOOKS

1. Singh, Ashok Kuamr : Rastriya Surksha Ke Badalte Ayam
2. Singh, Ashok Kumar : Rastriya 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
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
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, Sriimal : Antarrashtriya Rajneeti
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
REFERENCE BOOKS

1. Singh, Lallan ji : Rashtriya Raksha evam Suraksha
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 & Pearcy : 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. Firgrim, J. : Geography and World Power
13. Johnson, D.N. : Topography and Strategy in War
14. Mediott, W.N. : The economic Blockade
15. Parker, H.M.D. : Manpower-A study of wartime Policy & administration
17. Gupta, P.R. : Sainya Bhogol
18. Gupta, P.R. : Strategic Geography
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
REFERENCE BOOKS

1. Singh, Ashok Kumar: Raksha Arthashastra Ke Ayam
2. Singh, Birpal: Pratiraksha Arthashastra
3. Klaus, Knorr: The War Potential of Nations
4. Klaus, Knorr: Power and Wealth
7. Hitch, C.J. and Roland: The Economics of Defence in Nuclear Age
11. Hajela T.N.: Public Finance
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) Copyright 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
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 Journalism
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
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


[D] Slope Analysis and Route Determination on the Map

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

REFERENCE BOOKS

1. Woodworth and Schlosberg : Experimental Psychology
2. Verma, Preeti : Prayogatmak Manovigyan
M.A./M.Sc. (Previous)

PRACTICAL MARKING SCHEME

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DEFENCE & STRATEGIC STUDIES
2018
M.A./M.Sc. FINAL

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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
**REFERENCE BOOKS**

1. Singh, Ashok Kumar : Adhunik Strategic Vichardhara Macheavili Se Parmanu yug tak
2. Hart, Liddel : The Strategy of Indirect Approach
4. Singh, Lallan Ji : Strategic Vicharak
5. Pandey, R.S. : Strategic Vichardhara
8. Tung & Guevara : Guerilla Warfare
10. Dougherty, J. : How to Think About Arms Control & Disarmament
12. Brown, H.E. : Deterrence Failure and Deterrence Strategies
15. Harkabi, Y. : Nuclear War and Nuclear Peace
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.
4. Organized Crimes: Money Laundering, Narco-trafficking

Unit-III Indian Ocean Region

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.

(Handwritten notes and signatures)
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
4. Pant, P. : 21vin Shatabdee mein Antarrashtriya Sambandh
5. Pandey, R.S. : Rashtriya Suraksha evam Antarrashtriya Sambandh
6. Singh, Lallan Ji : Rashtriya Raksha aur Suraksha
7. Pant, Jain, Panchaula : Antarrashtriya Sambandh (Siddhanta Aur Etavahar)
10. Wright, Quincy : A Study of War
11. Franke, J. : International Relations
14. Harkabi, Y. : Nuclear War and Nuclear Peace
15. Majeed, Akhtar : Indian Ocean-Conflict and Regional Cooperation
16. Braun, Dieter : The Indian Ocean
17. Vali, FA : Politics of the Indian Ocean
18. Chanchreek, KL : The Gulf War (HK Pubs, Delhi)
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

[Signatures]
REFERENCE BOOKS

1. Singer, J.D. : Deterrence, Arms Control & Disarmament
2. Headly Bull : The Concept of Arms Race
3. Baker, Philip Noel : The Arms Race
5. Backakai, T. : The Armament Race & The Developing Countries
6. Carmesal, Albert : Living with Nuclear Weapons
8. Thee, Mark : Armaments, Arms Race and Disarmament
9. Mayer : Understanding Nuclear War & Arms Control
10. Turner : The Arms Race
12. IDSA Publication : On the above topics
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 Diagramatic 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
**REFERENCE BOOKS**

1. Brown & Ghiseli : Scientific Method
2. Goodde & Hart : Methods in Social Survey and Research
3. Young : Scientific Social Survey and Research
4. Whitney : Elements of Research
5. Tandon, B.C. : Research Methodology in Social Sciences
7. Agrawal, L.N. : Anusandhan Parichayo
8. Bhatnagar & Rai : Shodh Parichaya
9. Nagendra : Shodh Aur Sidhanta
10. Bajpai, S.P. : Methods of Social Survey and Research
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 Adjudication, 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
REFERENCE BOOKS

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
7. Brownline, Ian : Principal of Public International Law
8. Paria, BL : Antrrashtriya Vidhi

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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 (C3I)

Unit-IV Space Technology

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

Unit-V New Devices of Warfare
<table>
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<tr>
<th>Reference Books</th>
<th>Title</th>
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<tbody>
<tr>
<td>1. Rodgers, Fowler</td>
<td>Surveillance and Target Acquisition System</td>
</tr>
<tr>
<td>2. Military Pub, USSR</td>
<td>Star War Delusions and Dangers</td>
</tr>
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<td>3. Barnby</td>
<td>Automated Battlefield</td>
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<tr>
<td>4. Mir Pub, Moscow</td>
<td>The Night After</td>
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<tr>
<td>6. Poulose, T.T.</td>
<td>Nuclear Prolifration and Third World</td>
</tr>
<tr>
<td>7. Arkin</td>
<td>Nuclear Battlefield</td>
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<td>8. Wollicox, A.M.</td>
<td>Command, Control and Communication</td>
</tr>
<tr>
<td>9. Morris, M.</td>
<td>Communication for Command and Control</td>
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<td>10. Strealy, M.</td>
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<td>12. Miller</td>
<td>Modern Submarines</td>
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<td>13. Shake, M.</td>
<td>War Without men</td>
</tr>
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<td>14. Lin, Herbert</td>
<td>New Weapons Technology ABM Treaty</td>
</tr>
<tr>
<td>15. Paradae, K.C.</td>
<td>The Future of Space</td>
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</tbody>
</table>
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.
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

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