

DAVI AHILYA UNIVERSITY, INDORE [M.P.]

Military Science

M.A. / M.Sc. [Previous]

SEMESTER – II

PAPER – I [Part B]

Evolution of Strategic Thoughts

Marks -85

Unit – 1.

1. Erich Friedrich-Wilhelm Ludendorff (1865-1937).
2. Capt. B.H. Liddell Hart (1895-1970).
3. Maj. Gen. J.F.C. Fuller (1878-1966).

Unit – 2.

1. Giulio Douhet (1869-1930), General William L. "Billy" Mitchell (1879-1936) & Alexander Seversky (1894-1974).
2. Alfred Thayer Mahan (1840-1914) & Douglas Mac Arthur (1880-1964).
3. Andre Beaufre (1902-1975).

Unit – 3.

1. Adolf Hitler (1889-1945).
2. Winston Churchill (1874-1965).
3. Henry Alfred Kissinger (1923-).

Unit – 4.

1. Halford J. Mackinder (1861-1947).
2. Karl Haushofer (1869-1946).
3. Rudolf Kjellen (1864-1922).

Unit – 5.

1. Sun-Tzu (544 B.C.-496 B.C.)
2. Vladimir Ilyich Ulyanov Lenin (1870-1924).
3. Mao-Tse-Tung (1893 - 1976) & Che-Guevara (1928-1967).

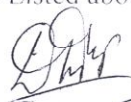
Books Recommended:-

- | | | |
|--------------------------|---|---|
| 1. Quincy Wright | : | Study of War Vol.-I. |
| 2. Edward Meade Earl | : | Makers of Modern Strategy. |
| 3. Taylor | : | The Art of War in Italy. |
| 4. Clausewitz | : | On War. |
| 5. Jomini | : | The Art of War. |
| 6. Engels & Marx | : | Military Concept of the Social Revolutionaries. |
| 7. Winston Churchill | : | Second World-War. |
| 8. Liddell Hart | : | Strategy: The Indirect Approach. |
| 9. Liddell Hart | : | Thoughts on War. |
| 10. Brig. Rajendra Singh | : | Word of Wisdom on War. |
| 11. Helprin | : | Contemporary Military Strategy. |
| 12. John Bylis | : | Contemporary Strategy. |

Continue... Evolution of Strategic Thoughts (SEMESTER-II)

13. Abdul Hariss Nasutian	:	Fundamentals of Guerrilla-Warfare.
14. Lord Tedder	:	Air Power in War.
15. Fuller J.F.C.	:	Conduct of War.
16. Howard Michael	:	Grand Strategy of World-War Second.
17. Palit D.K.	:	War in the Deterrent Age.
18. Rope, Theodore	:	War in the Modern World.
19. Cyrill Falls	:	Hundred Years of War.
20. Aror, Raymond	:	The Century of Total-War.
21. Aror, Raymond	:	Peace and War.
22. Schwars, Lonis	:	American Democracy and Military Power.
23. V.D. Sokolovasky	:	Soviet Military Strategy.
24. Robert E. Osgood	:	Limited war: The Challenge to American Strategy.
25. Johari R.C.	:	Pashchatya Sainya Vicharak (Hindi).
26. B.R. Pandey & R.S. Pandey	:	Stratgiya Chintan (Hindi).
27. J.M. Shrivastava	:	Stratgiya Chintan (Hindi).
28. Lallan Ji Singh	:	Sainya Vicharak (Hindi).
29. G.C. Shrivastava	:	Battles of World-War and Post War Development (Hindi).
30. Shekhar Adhikari	:	Modern Strategic Thoughts.
31. Franking Mark Osanka	:	Modern Guerrilla-Warfare.

Note: - Any other Books and Journals may be prescribed to enrich the Standard of Performance in the items Listed above under Theory Paper.











DAVI AHILYA UNIVERSITY, INDORE [M.P.]

Military Science

M.A. / M.Sc. [Previous]

SEMESTER – II

PAPER – II [Part B]

History of Warfare in the West (From 1861-1945)

Marks -85

Unit – 1.

1. The Russian Revolution impact of Class-Struggle and influence of Karl-Mark, Lenin's concept of Communism.
2. The Battle of Warsaw (13-25 August 1920).
3. Rise of third Reich and foundations of the Second World-War.

Unit – 2.

1. The Second Battle of Sedan (12-15 May 1940) and the fall of France.
2. The Battle of Siddi Barrani (09-11 December 1940).
3. Operation-Barbarossa and Lend-Lease Act.

Unit – 3.

1. The Battle of Moscow (02 October 1941-07 January 1941).
2. The Battle of El-Alamein (01-27 July 1942).
3. Foundations of Stalingrad Campaign and the Battle of Stalingrad (23 August 1942-02 February 1942).

Unit – 4.

1. Second Political Front.
2. The Battle of Normandy (06 June-25 August 1944).
3. Consequences of the Battle of Normandy.

Unit – 5.

1. War in the Pacific (07 December 1941-02 September 1945).
2. The Second World-War in Retrospect and Prospect.
3. Strategy and Tactics of the Second World-War.

Books Recommended:-

- | | | | |
|----|--------------------------|---|---|
| 1. | J.F.C. Fuller | : | The Decisive Battles of the Western World Vol.-III [To be used as a text book]. |
| 2. | J.F.C. Fuller | : | The Second World-War. |
| 3. | Montgomery | : | Normandy to Baltic. |
| 4. | Liddell Hart | : | Rommel Papers. |
| 5. | Lt.Gen. Francis Taker | : | The Pattern of war. |
| 6. | J.F.C. Fuller | : | A Military of the Western World. |
| 7. | Vasim Ahmed Khan | : | Vishva ke Prasiddha Yuddh. (Hindi). |
| 8. | Gyan Chandra Shrivastava | : | Battles of World-War and Post war Development. (Hindi). |
| 9. | Major E.W. Sheppard | : | The Study of Military History. |

Note: - Any other Books and Journals may be prescribed to enrich the Standard of Performance in the items Listed above under Theory Paper.

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DAVI AHILYA UNIVERSITY, INDORE [M.P.]

Military Science

M.A. / M.Sc. [Previous]

SEMESTER – II

PAPER – III [Part B]

Disarmament, Arms-Control and Peace

Marks -85

Unit -1.

1. Bilateral efforts and Agreements towards Arms-Control.
2. Mutual Arms-Control & Multilateral Agreements towards Arms-Control.
3. India-Pakistan Arms-Race and Future of Disarmament and Arms-Control.

Unit -2.

1. Peace and its Maintenance, Historical effects for preservation of Peace through Balance of Power and Voluntary Units.
2. Liddell Hart's Eight Pillars of Peace.
3. Peace through the Strategy of Disarmament & Arms-Control.

Unit -3.

1. The building of confidence and Security at the negotiations in Stockholm and Vienna START-I & II.
2. The South Pacific Nuclear Free Zone.
3. Peace Keeping in International Politics.

Unit -4.

1. Peace through a World-State.
2. Peace through the Principles of Panchsheel and Non-Violence.
3. Gandhian Thoughts on Peace.

Unit -5.

1. Role and Organization of International Peace Keeping Forces.
2. Public Opinion on Peace and War.
3. Role of UNO towards Disarmament, Arms-Control and Peace.

Books Recommended:-

1	Headley Bull	:	The Control of Arms Race.
2	Brenan, D.G.	:	Arms Control and Disarmament.
3	Levine, Robert, A	:	The Arms Debate.
4	Singer, J.D.	:	Deterrence Arms Control and Disarmament.
5	Edwards	:	Arms Control in International Politics.
6	Stone, J.H.	:	Containing the Arms Race.
7	Van Bostrand	:	Dough Control for Late Sixties.
8	Beaton Neddox	:	The Spread of Nuclear Weapons.
9	Raymond Aror	:	The Imperial Republic.
10	Raymond Aror	:	War and Peace.
11	Howard, Michael	:	Study of War and Peace.
12	John Garrett (ed.)	:	Theories of Peace and Security.
13	Morgenthau, Hans, J.	:	Politics among the Nations: The Struggle for Power and Peace.
14	Khopp, w.	:	A history of War and Peace.
15	Sepri	:	Arms trade with the third world.
16	Sepri	:	Sipri Year book – 1983 & others.
17	Harkabi, Y.	:	Nuclear war and nuclear peace.
18	Osmidf Helmut	:	Defence of Retaliation.
19	Wilfrid Knapp	:	A history of War and peace (1939 - 1965).

Note: - Any other Books and Journals may be prescribed to enrich the Standard of Performance in the items Listed above under Theory Paper.

DAVI AHILYA UNIVERSITY, INDORE [M.P.]

Military Science

M.A. / M.Sc. [Previous]

SEMESTER – II

PAPER – IV [Part B]

Nuclear, Biological & Chemical Warfare

Marks -85

Unit -1. Biological Warfare:

1. Historical Development and Definition of Biological Warfare.
2. Delivery Systems and Hardware of Biological Warfare.
3. Biological Warfare Weapons in Action, Technology of Biological Warfare and Modern Biological Operations.

Unit -2. Biological Warfare:

1. Various Biological Agents and Protection from the Biological Agents.
2. Biological Balance and Biological Weapons Destruction.
3. Biological Weapons and Security & The effects of Global Biological Warfare.

Unit -3. Chemical Warfare:

1. Historical Development, Definition of Chemical Warfare.
2. Delivery Systems and Hardware of Chemical Warfare.
3. Various Chemical Agents: Nerve Agents, Blood Agents, Blister Agents, Vomiting Agents, Tear Agents and Other Agents.

Unit -4. Chemical Warfare:

1. Defence against Chemical Warfare.
2. Chemical Weapons / Agents, when Chemical became Weapons for War, Five most deadly Chemical Weapons for war.
3. Chemical Agents Detector and Chemical Weapons in Action.

Unit -5. Chemical Warfare:

1. Chemical Weapon Destruction.
2. The Chemical Balance and Chemical Weapons and Security.
3. The War Chemicals, Socio-Political Climate & Chemical Warfare, Effects of the Global Chemical Warfare.

Books Recommended:-

- | | | |
|----------------------------|---|---|
| 1. Frank Barnaby | : | Future War. |
| 2. Col. Friedman Richard S | : | Advanced Technology Warfare. |
| 3. Royal Swedish Academy | : | Nuclear War the Aftermath. |
| 4. T. J. Gander | : | Nuclear, Biological and Chemical Warfare. |
| 5. Stephen King Hall | : | Defence in the Nuclear Age. |
| 6. Rajveer Singh | : | War and Peace in the Nuclear Age. |
| 7. Subramniyam | : | Nuclear Pakistan. |
| 8. Roman Kolko | : | Dilemmas of Nuclear Strategy. |
| 9. Brassey's | : | Nuclear and Non-Nuclear Defence Options. |
| 10. Nirmal Jindal | : | War as a Political Weapon in the Nuclear Age. |

Continue.... Evolution of Strategic Thoughts (SEMESTER-II)

11. Dr. Indu Prakash	:	Nuclear Vishva Yuddh aur Paryavaran. (Hindi).
12. Dr. Indu Prakash	:	Paryavaran aur Rasayanic Kitanu Yuddh. (Hindi).
13. Dr. Indu Prakash	:	Prakshepiki. (Hindi).
14. Dr. Indu Prakash	:	Yuddh ka Vigyan/Science of War. (Hindi).
15. Dr. C. L. Garg & D. K. Garg	:	Nabhikiya Astra-Shastra. (Hindi).
16. Dr. Vishnu Kant Sharma	:	Rasayanic Yuddh ki Taknik. (Hindi).
17. Geoff Plunkett	:	Chemical Warfare in Australia.
18. Dr. Hauk Ellison	:	Chemical Warfare during the Vietnam War.
19. K. Coleman	:	A History of Chemical Warfare.
20. William J. Broad	:	Germes : Biological Weapons and America's Secret War
21. Curt Wachtel & Fritz Haber	:	Chemical Warfare.
22. Donald A Cameron	:	Chemical Warfare: Poison Gas in the Coming War.
23. Jonathan B. Tucker	:	War of Nerves Chemical Warfare from World War I to Al-Qaida
24. Paul R. Ziaya	:	Biological and Chemical-Warfare.
25. Stephen Endicott and Edward Hagerman	:	United States and Biological-Warfare.

Note: - Any other Books and Journals may be prescribed to enrich the Standard of Performance in the items Listed above under Theory Paper.

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DAVI AHILYA UNIVERSITY, INDORE [M.P.]

Military Science

M.A. / M.Sc. [Previous]

SEMESTER –II

Practical Work [Part B]

Marks -50

A. CARTOGRAPHY:

1. To find out North & Types of North.
2. Bearings and its Inter Conversion.
3. Representation of Relief and Section Drawing.
4. Map Projection :-
 - a. Conical with one and two Standard Parallels Projection.
 - b. Bones Projection.
 - c. Poly-Conic Projection.
 - d. Mercator Projection.
 - e. Zenithal Equal Distance and Zenithal Equal Area Map Projections.

OR

REMOTE SENSING:

1. Cultural detail Map from Land sat Imagery.
2. Study of Land sat Imagery.
3. Study of Additive and subtractive Colour Principles.

B. SPOTTING: Spotting of Various Types of Aircraft and Ship Models.

C. GROUP DISCUSSION: Conduct of Group Discussion with reference to the Syllabus of the II Sem.

Note :- Group Discussion will be gone through in the Periods allotted on topic of the syllabus but at the time of the Practical Examination one of the given four from the syllabus be selected for the purpose of assessment by the External and Internal Examiners.

D. Lecturing on Current Topic.

Books Recommended:-

- | | |
|-------------------------|--|
| 1. B.N. Maliwal | Prayogatmak Sainya Vigyan Vol-I. |
| 2. Narendra Singh | Prayogatmak Sainya Vigyan. |
| 3. Brig. Rajendra Singh | Map Reading. |
| 4. J.M. Srivastava | Prayogatmak Sainya Vigyan. |
| 5. Balwant Singh | Map Reading. |
| 6. Tanks | Map and Survey. |
| 7. Steers | Map Projections. |
| 8. Bygott | Map and Map Work. |
| 9. Raize | General Cartography. |
| 10. Thomas | Surveying. |
| 11. Kanetkar | Surveying & Leveling Vol-I. |
| 12. Andrew Bayed | Atlas of World Affairs. |
| 13. Andrew Bayed | For Spotting Summary. |
| 14. H.M.S. London | Manual of Map Reading, Air Photo Reading and Field Sketching Part I, II & III. |
| 15. N.P. Ayyar | Sarvekshan. |

Note:- Any other Books and Journals may be prescribed to enrich the Standard of Performance in the items Listed above under Practical Paper.

DAVI AHILYA UNIVERSITY, INDORE [M.P.]

Military Science

M.A. / M.Sc. [Final]

SEMESTER – IV

PAPER – I [Part B]

Military History of India

Marks -85

Unit – 1.

1. Central Asian Campaign of Shahjahan and the Battle of Delhi or Talkotra (28 March-1737 A.D.) and the Causes of the decline of Mughal Military System.
2. Military Organization / System of Marathas under Shivaji.
3. Shivaji's technique of fighting with special reference to the Siege of Surat.

Unit – 2.

1. Military System of Marathas after Shivaji.
2. The Third Battle of Panipat (14 January-1761).
3. The Battle of Assai (1803), Anglo-Maratha Wars (1805-1818) and Causes of the decline of Maratha Military System.

Unit – 3.

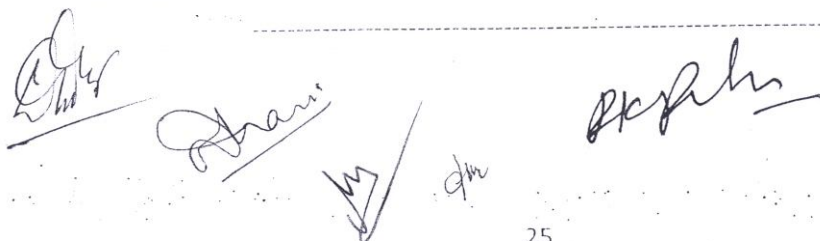
1. Sikh Military System of Guru Govind Singh & Military Organization of Sikh under Maharaja Ranjeet Singh.
2. Anglo-Sikh Wars (1845-1846 to 1848-1849 A.D.).
3. Causes of the decline of Sikh Military System.

Unit – 4.

1. The Battle of Plassey (23 June-1757).
2. The Battle of Baxar (22 Oct.-1764).
3. The Military Organization of East India Company.

Unit – 5.

1. India's first Liberation-Movement for Independence (1857 A.D.) Causes of the Liberation-Movement & the Causes of the failure of Liberation-Movement.
2. Reorganization and reforms of the Army in India under the British Crown.
3. Indianisation of the Indian Armed Forces after Independence.



Continue.....Military History of India (SEMESTER-IV)

Books Recommended:-

- | | | |
|-------------------------|---|--|
| 1. Dr. P.C. Chakravarty | : | The art of war in Ancient India. |
| 2. Prof. A.R. Dikahitar | : | War in Ancient India. |
| 3. Dr. S.R. Singh | : | Ancient India Warfare. |
| 4. B.K. Majumdar | : | Military System of the Marathas. |
| 5. B.K. Majumdar | : | Indian Military system in Ancient India. |
| 6. Sir. J.N. Shankar | : | Fall of the Mughal Empire Vol. I & II. |
| 7. Sir. J.N. Shankar | : | Military History of India. |
| 8. J.F.C. Fuller | : | Alexander the Great. |
| 9. Gautam Sharma | : | Indian Army through the Ages. |
| 10. R.C. Kulshrestha | : | An Introduction to Dhanurveda. |
| 11. R.C. Kulshrestha | : | Kautilya's Philosophy of War. |
| 12. P. Sen. Sharma | : | Kurukshetra War. |
| 13. Sarva Daman Singh | : | Ancient Indian Warfare with special reference to Vedic period. |
| 14. W. Irvine | : | The Army of Indian Mughal. |
| 15. S.N. Sen. | : | Victory System of Marathas. |
| 16. Gulcharan Singh | : | Battles of Panipat. |
| 17. Alfred Devid | : | Indian Art of War. |
| 18. I.H. Qureshi | : | Administration of Sultanate. |
| 19. Col. Melleson | : | Decisive Battles of India. |
| 20. R.D. Palsokar | : | Shivaji the Great Guerrilla. |
| 21. R.D. Palsokar | : | Study of Generalship. |
| 22. Karr | : | Military History of India. |
| 23. Subramniyam | : | Indian Military History. |
| 24. K.M.L. Saxena | : | The Military System of India. |
| 25. S. T. Das | : | Indian Military. |

Note: - Any other Books and Journals may be prescribed to enrich the Standard of Performance in the items Listed above under Theory Paper.

