

**DAVI AHILYA UNIVERSITY, INDORE [M.P.]**

**Military Science**

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

**SEMESTER – IV**

PAPER – II [Part B]

**Military Psychology**

Marks -85

**Unit – 1.**

1. Fear: Meaning, Definition, Characteristics, Types, Reasons, Effect on Morale, Effects of Fear on Discipline with example, psychology of fear, control of fear in Defense, Attack and withdrawal, physical fatigue and fear. Methods to overcome fear.
2. Leadership: Meaning, Definition, Nature of Leadership, Types of Leadership, factions of Leader, Attributes of Leadership, purpose of Military Leadership.
3. Attitude: Attitude Organization, impact of Military life on the formation of Attitudes.

**Unit – 2.**

1. Moral: Meaning, Definition, Nature, Factors contributing to Morale or techniques of Boosting Morale, Effect of fear on Morale, and it's Significance in Defense.
2. Discipline: Meaning, Definition, Indices of Discipline, purpose of Discipline, Psychology of Discipline, Role of Drill and Organized Sports in Discipline, special problems of Discipline.
3. Emotion (Fear and Anger): Psychology of Emotion, Expression of Emotion, Fear and Emotion, Fighting-Fear, Emotion and Anger.

**Unit – 3.**

1. Courage: Definition, Meaning, Importance, Types and Effecting Elements.
2. Endurance: Meaning, Importance, Types and Effecting Elements.
3. Psychological Warfare: Nature, Techniques, Role and Importance of Psychological Warfare.

**Unit – 4.**

1. Propaganda: Elements, Aim Role and Importance of Propaganda, types of Propaganda, techniques of Military Propaganda and Combats Propaganda.
2. Rumor: Nature. Techniques, Merits and Demerits, use of Rumors in War, Control of Rumors, Psychology of Rumor.
3. Brain Washing: Structure, Theories and Techniques of Brain Washing, Determinants of Brain Washing.

**Unit – 5.**

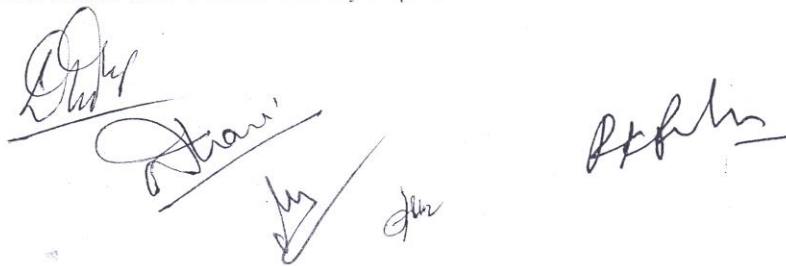
1. Mental Health Problems and Soldier in War and Treatment.
2. Psychological Disorder and emotional strains imposed by War Hysteria, Conversions Hysteria, Anxiety, Collective Anxiety, Neurosis, and War Neurosis.
3. Predisposing conditions and methods of treatment.

Continue.....Military Psychology (SEMESTER-IV)

Books Recommended:-

- |                         |   |  |
|-------------------------|---|--|
| 1. Boring, Edwin G.     | : | Psychology for the Armed Services.           |
| 2. Lienbarger           | : | Psychological Warfare.                       |
| 3. Mac, Cormack         | : | Human Factor Engineering.                    |
| 4. Bartlett, F.G.       | : | Psychology and the Soldier.                  |
| 5. Mann, J.             | : | Frontiers of Psychology.                     |
| 6. Henning's            | : | Air War and Emotional Stress.                |
| 7. Lifton, R.J.         | : | Thought Reforms and Psychology of Tot-Alter. |
| 8. Schein, E.H.         | : | Coercive Persuasion.                         |
| 9. Brown, J.F.          | : | Techniques of Persuasion.                    |
| 10. Second & Backman    | : | Social Psychology.                           |
| 11. Grinker, R.R.       | : | Man under Stress.                            |
| 12. Norman Copeland     | : | Psychology and Soldier.                      |
| 13. Hasnain, Maj. Qamar | : | Psychology for the fighting man.             |
| 14. Gupta, Parshuram    | : | Sainya Manovigyan (Hindi).                   |

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

The block contains several handwritten signatures and initials. On the left, there is a large, stylized signature that appears to be 'D. D. S.' or similar, followed by another signature 'R. K. S.' and some smaller initials. To the right of these, there are two more distinct signatures, one of which is 'R. K. S.' and the other is 'J. M.'.

**DAVI AHILYA UNIVERSITY, INDORE [M.P.]**

**Military Science**

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

**SEMESTER – IV**

PAPER – III [Part B]

**Area Study**

(Jammu & Kashmir and North-East Hill States)

Marks -85

**Unit – 1.**

1. Historical Background and Terrorism of the Jammu & Kashmir.
2. Strategical Location, Security aspects and Importance of the Jammu & Kashmir.
3. Role of Pakistan in Jammu & Kashmir and the security Problems of India.

**Unit – 2.**

1. Cross Border Terrorism in Jammu & Kashmir and the security Problems of India.
2. Role of China in Jammu & Kashmir and the security Problems of India.
3. China-Pakistan Common interest in the region of Jammu & Kashmir and its effect on India's Security.

**Unit – 3.**

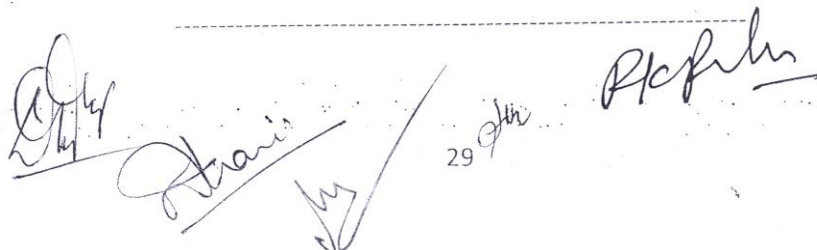
1. Historical Background and Insurgency of North-East Hill States (Sikkim, Arunachal Pradesh, Assam, Meghalaya, Manipur, Mizoram, Tripura & Nagaland).
2. Strategical Location, Security aspects and Importance of North-East Hill States.

**Unit – 4.**

1. Natural resources and Defence potentials of North-East Hill State.
2. Logistics in the region of North-East Hill States.

**Unit – 5.**

1. Insurgency Problems in the North-East Hill State and Internal security problems of India.
2. China's role and Interest in the region of North-East Hill State and its effect on India's Security.

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Continue..... Area Study/Jammu & Kashmir and North-East Hill States (SEMESTER-IV)

Books Recommended:-

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|----------------------------------|---|---|
| 1. Poulse, Dr. T.T.              | : | Indian Ocean Power Rivalry.   |
| 2. Pannikar, K.M.                | : | Geographical factors in Indian Ocean.   |
| 3. Pannikar, K.M.                | : | India and Indian Ocean.   |
| 4. Vaidya, K.B.                  | : | Naval defence of Indian Ocean.  |
| 5. Martin, L.W.                  | : | Sea in Modern Strategy.   |
| 6. Admiral Kohli                 | : | Sea Power in the Indian Ocean.  |
| 7. Palsokar, R.D.                | : | Power Rivalry in the Indian Ocean.  |
| 8. Singh, R.K.                   | : | Indian Ocean.   |
| 9. I.D.S.A. Journal              | : | New Review on Indian Ocean Defence Journal – Vikrant and Chanakya.                  |
| 10. Elwi, Verrier                | : | Philosophy of NEFA.   |
| 11. Rahul, Ram                   | : | Himalayan Borderland.   |
| 12. Karan, P.P.                  | : | Himalayan Kingdom.  |
| 13. Srinivas, M.N.               | : | Social Change in Modern India.  |
| 14. Nandi, S.N.                  | : | Agro-Economic Indications – A Comparative Study of North Easter States of India.    |
| 15. Meeti, N.B.                  | : | Autonomy, Ethnic Politics and Conflicts in North-east India.                        |
| 16. Horam, M.                    | : | Naga Insurgency: the last thirty years.   |
| 17. Hazarika, Sanjoy             | : | Strangers of the Mist: Tales of War and Peace from India's North-East.              |
| 18. Nibedon, Nirmal              | : | The Night of Guerillas.   |
| 19. Ben, Hayes                   | : | The other Burma – Conflict, Counter Insurgency and Human Rights in Northeast India. |
| 20. East-West Central Washington | : | Working Papers No – 10 July 2007.   |
| 21. Namrta Goswami (IDSA)        | : | India's North-East – 2020: for Alternative futures.                                 |

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**Military Science**

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**SEMESTER – IV**

PAPER – IV [Part B]

**Science & Technology in War**

Marks -85

**Unit – 1.**

1. Study of Missiles: History, Component and Structure, Classification of Missiles, different Guidance systems, Guidance system of Cruise Missiles & Guidance system of Ballistic Missiles system, Precision Guided Missiles or Munitions (PGMs).
2. Navigation of the Missile towards the Target, Anti Ballistic System and Anti Ballistic Missile (ABM), Multiple Independently Targetable Re-entry Vehicles (MIRVs), Global Positioning System (GPS).
3. Development Missiles in India.

**Unit – 2.**

1. Standoff Guidance, Command, Control, Communication, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR).
2. War and Space, Space technology and Military role of space.
3. Military importance of Space technology & Star War (SDI) and India's Space Programme.

**Unit – 3.**

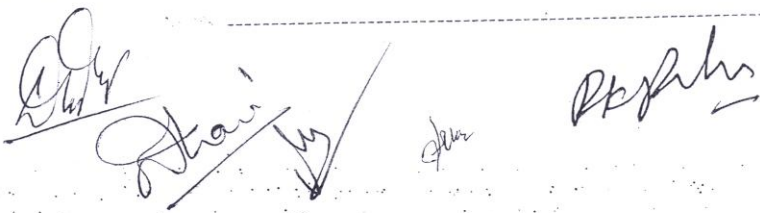
1. Remote Sensing and its application in security, Indian Remote Sensing Satellite.
2. RADAR: Working system or Methods, Military use of RADAR, Silent RADAR.
3. LASER: Development of Maser and LASER, Characteristics, types, War Science and LASER.

**Unit – 4.**

1. Remotely Piloted Vehicles (RPVs), Drone, Modern weapon System.
2. Electronic warfare: Aim, Role, Impact, Bodies of Electronic warfare-Electronic Support Measures (ESM), Electronic Counter Measures (ECM), Electronic Counter Counter Measures (ECCM).
3. Principles employed in Electronic warfare, Importance of Information Technology in Electronic Warfare,

**Unit – 5.**

1. Information / Cyber warfare: Meaning, Definition, Types, Role, Impact and Importance of Information / Cyber warfare in the modern warfare.
2. Changing nature of war technology [Night vision technology, Pilotless Aircraft, Low Light Television, Computer war gaming, Redemption change Coupled Imagers].
3. Computer and Information Processing.



Continue.....Science & Technology in War (SEMESTER-IV)

Books Recommended:-

- |                               |   |   |
|-------------------------------|---|---|
| 1. J.F.C. Fuller              | : | Armament and History.   |
| 2. Sir Russell Bertrand       | : | Science and Survey.   |
| 3. Partway Donald             | : | Military Science Today.   |
| 4. Dow                        | : | Fundamentals of Advanced Missiles.                                |
| 5. D.R. Bates                 | : | Space Research and Exploration.                                   |
| 6. Govt. of India Publication | : | Nuclear Explosion and their effects.                              |
| 7. Robin Clerk                | : | The War and Peace.  |
| 8. Christopher Lee            | : | War in Space.   |
| 9. R.K. Jasbir Singh          | : | Military Science and Armament Technology.                         |
| 10. Military Year Book        | : | Latest Edition.   |
| 11. Indu Prakash              | : | Yuddh ka Vigyan/War Science. (Hindi).                             |
| 12. Indu Prakash              | : | Rashynik aur Kitanu Yuddh. (Hindi).                               |
| 13. Indu Prakash              | : | Prakshepiki. (Hindi).   |
| 14. Manmohan Bala             | : | Raksha Vigyan. (Hindi).   |
| 15. C.L. Garg                 | : | Nabhikiya Astra-Shastra. (Hindi).                                 |
| 16. C.L. Garg                 | : | Adhunik Astra-Shastra Aur Yuddh Vigyan. (Hindi).                  |
| 17. Viren gohil               | : | Hathiyar – Barood se Atom Tak. (Hindi).                           |
| 18. Mark Dartford             | : | Modern Warfare.   |
| 19. Frosunda-Sweden           | : | Sipri Year Book.  |
| 20. MC Graw hill              | : | Encyclopedia of Science and Technology.                           |
| 21. C.L. Garg                 | : | Chamatkari Kiran LASER. (Hindi).                                  |
| 22. K. Parkins                | : | Weapons and Warfare.  |
| 23. B.N. Pandey               | : | Yuddh, Vigyan Avam Takniki. (Hindi).                              |
| 24. Munesh Kumar              | : | Suchna Takniki Avam Raksha Takniki. (Hindi).                      |
| 25. G.K. Pandey               | : | Yuddh me Vigyan Avam Takniki. (Hindi).                            |
| 26. Frank Barnaby             | : | Future War.   |
| 27. Maj. Gen. Raj Mehta       | : | Encyclopedia of Missile Defense and Non-Proliferation–Vol. I & II |
| 28. Philip Alexander          | : | Information Security.   |
| 29. M.N. Golvin               | : | Conflict in Space.  |
| 30. Nels A. Parson Jo         | : | Missiles and the Revolution in Warfare.                           |

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**SEMESTER –IV**

**Practical Work [Part B]**

Marks -50

**A. Psychological Experiments:**

1. Fatigue: (a) Mental (b) Physical-Incentives on work and Fatigue.
2. Measurement: (a) Intelligence (b) Perseveration.
3. Reaction Time: Simple, Choice and discriminative reaction time for Visual.

**B. Spotting: Recognition of Tank and Gun Models.**

**C. Group Discussion on Military Topics.**

**D. Lecturing on Current Topics.**

**Books Recommended:-**

- |  |   |  |
|--|---|--|
| 1. Collins                               | : | A fist laboratory guide in psychology.                     |
| 2. W.S. Hunter                           | : | Foundations of experimental psychology.                    |
| 3. H.S. Hines                            | : | Measuring intelligences (Harrap and Co. London, Calcutta). |
| 4. Phillip Basswood                      | : | Group Test intelligences published by Ballard.             |
| 5. Competition Success Review (Monthly). |   |  |

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