**SCHEME OF PAPERS**

**M.A. (DEFENCE & STRATEGIC STUDIES) PART-II**

**(Third and Fourth Semester)**

**FOR REGULAR AND PRIVATE CANDIDATES**

**For 2016-17 and 2017-18 Examinations**

**THIRD SEMESTER**

PAPER-I (Compulsory) NATIONAL SECURITY 4+1=5 CREDITS

PAPER-II (Compulsory) DEFENCE ECONOMICS 4+1=5 CREDITS

Paper-III (Compulsory) SCIENCE AND TECHNOLOGY IN RELATION TO WARFARE 4+1=5 CREDITS

PAPER-IV (Option-I) MILITARY PSYCHOLOGY 4+1=5 CREDITS

PAPER-V (Option-II) TERRORISM 4+1=5 CREDITS

**FOURTH SEMESTER**

PAPER-I (Compulsory) INDIAN SECURITY: ISSUES AND PROBLEMS

4+1=5 CREDITS

PAPER –II (Compulsory) RESEARCH METHODOLOGY 4+1=5 CREDITS

PAPER-III (Compulsory) SCIENCE, TECHNOLOGY AND INDIA’S DEFENCE PREPAREDNESS 4+1=5 CREDITS

PAPER-IV (Option-I) MILITARY SOCIOLOGY 4+1=5 CREDITS

PAPER-V (Option-II) MAJOR INTERNATIONAL CONFLICTS AFTER WORLD WAR- II 4+1=5 CREDITS

**SYLLABUS**

**M.A. PART-II (DEFENCE & STRATEGIC STUDIES)**

**(THIRD AND FOURTH SEMESTER)**

**2016-17 & 2017-18**

Note: Each paper is of 74 marks and 26 marks are for Internal Assessment.

The Break of 26 Marks for Internal Assessment (Theory Papers) is as below:

1. Test 10 Marks

2. Class Attendance 06 Marks

3. Project Work/Assignment/ 10 Marks

Seminar / Field Work etc.

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Total Marks 26 Marks

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**FOR REGULAR AND PRIVATE CANDIDATES**

**SEMESTER-III**

**PAPER-I (COMPULSORY)**

**NATIONAL SECURITY**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION-A**

i Concepts of Security :-

1. National Security
2. Regional Security,
3. Global Security;
4. Human Security,
5. Environment Security.

ii. National Defence and Security Policies: Formulations and Linkages.

iii. Determinants of National Security with reference to the followings:

1. Geographical factors: location, boundary and frontiers, terrain and access to high seas.
2. Social and Political factors.
3. Economic and Industrial potential.
4. Scientific and technological potential.
5. National unity and National morale.
6. Transport and communication.
7. Defence potential and defence preparedness.
8. Intelligence.

**SECTION-B**

i. Challenges to National Security:

a. Internal Challenges

b. External Challenges

ii. Contemporary International Strategic environment.

iii. Military Alliances and their role in 21st century.

iv. Small arms Proliferation, Weapons of Mass Destruction (WMD) proliferation and International terrorism.

**SUGGESTED READINGS**

Buzan, Barry People Fear and State: New Delhi, Trans asia Publications. 1987

Buzan, Barry and

Waever, Ole (eds) Regions and Powers: Cambridge. 2003

Das, S.T. National Security in Perspective: Delhi, Gian Publishing House. 1987

Frankel, Joseph National Interest: London, Macmillan. 1970

Garnett, John(ed) Theories of Peace and Security: Macmillan St. Martin’s Press. 1970

Morgenthau, Hans J Politics Among Nations: Calcutta, Scientific Book Agency.1969

Palmer, Norman D. and International Relations: Calcutta, Scientific Book Agency Perkins, Howard C. 1968

Chowdhury, Subrata Roy Military Alliances and Neutrality in War and Peace: New Delhi, Orient Longman. 1966

Singh, Nagendra The Defence Mechanism and the Modern State: New Delhi, Asia Publishing House. 1974

SIPRI Year Book Latest Edition.

**PAPER-II (COMPULSORY)**

**DEFENCE ECONOMICS**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 mark each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**DEFENCE ECONOMICS**

**Section – A**

1. Defence Economics: Meaning, Definition and Scope.
2. Defence and Development: Concept and its implications for India; Determinants of Defence Expenditure – Threat perceptions, capabilities and policies.
3. Economic Warfare; Effects of War on National Economy.
4. Economic implications of technological changes with reference to Defence Production in India; The rationale for self-reliance; and the problems of imported technology in defence production.

**Section – B**

1. Assessment of War Potential (Resources of War) of a nation; Mobilization of Resources for War with reference to Physical, Fiscal and Moral Mobilization.
2. Logistics: Resources, Supply chain, Transport and Communication.
3. Defence Planning, Programming and Budgeting in India.
4. India’s policy on Defence Production: Department of Defence Production and Supplies; Ordinance Factories; and Defence Public Sector Undertakings (DPSU’s); and Role of Private Sector in Defence Production.

**SUGGESTED READINGS**

Aggarwal, A.N. : Economic Mobilization for Defence.

Aggarwal, R.K.: Defence Production and Development.

Deger, Saadet: Military expenditure in Third World Countries.

Downey, John: Management in the armed forces, Dehradun: EBD Educational Pvt. Ltd.

Ghosh, Alak: Indian economy – its nature and problems, Calcutta, World Press.

Ghosh, Amiya Kumar, India’s Defence Budget and Expenditure Management in wider Context, New Delhi, Lancers, 1996

Clark, J.J.: The new Economics of National Defence

Hatfield, Mark O: The Economics of Defence, New York; Praeger Publishers.

Hitch, G.J. & Mckean: The Economics of Defence in the Nuclear age.

Jack, D.T.: Studies in economic warfare.

Jalan, B.: India`s economic policy- preparing for 21st. century.

Knor, Klaus: War Potential of the Nations.

Ludra, Lt. Col. Thakur K.S.: Understanding War: its implications and effects.

Mathews, Ron: Defence production in India.

Robinson, L.R.: The economic problems in war and peace.

Singh Jasjit: India’s defence spending.

Subramanyam, K,: Perspective in Defence Planning, New Delhi, Abhinav, 1972.

Subramanyam, K,: Defence and Development, Calcutta, Minerva, 1973.

Thomas, Raju GC: The Defence of India: Budgetary Perspective of Strategy and Politics, Bombay, Macmillan, 1978

Annual Reports: Ministry of Defence, Govt. of India.

Military Balance (Yearly), London; I.I.S.S.

Military Year Book, New Delhi

**PAPER-III (COMPULSORY)**

**SCIENCE AND TECHNOLOGY IN RELATION TO WARFARE**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION-A**

i.. Impact of Science and Technology on Society and warfare.

a. Science and Technology: Concepts

b. Impact of Science and Technology on Society

c. Relationship between technology and weapon system.

d. Impact of emerging technologies on strategy and tactic.

ii. Science, Technology and National Security.

iii. Transfer of Technology:

a. International interdependence

1. Role of Multinational Corporations

iv. Political, military and economic impact of transfer of Technology.

**SECTION-B**

i. Armament technology:

a. Armoured vehicles: Tanks and APC`s

b. Aircrafts and missiles

1. Nuclear weapons
2. Submarine and Aircraft carrier

ii. Electronics Warfare: Concept and applications

iii. Information warfare: Concept, application and implication

iv. Revolution in Military Affairs (RMA)

v. Ballistic missile Defence (BMD): Concept and applications.

**SUGGESTED READINGS**

Arcangelis, Mariode Electronics Warfare, Ratna , New Delhi.1990

Rehman,A Science Technology and Society: New Delhi, People’s Publishers House.1972

AnandA Information Technology: The future warfare weapons: New Delhi, Ocean books, 2003.

Baranson, Jack Technology and the Multinationals: Lexington, Lexington Books.1978

Johan Erickson (Ed.) The Military Technical Revolution: Its Impact on strategic and Foreign Policy: New York, Frederick A Prager.1966

Macksey, Kenneth Technology in War: The impact of Science on weapon development and modern Battle: NY, Prentice Hall.1986

Mann T.S. Transfer and Technology: Bombay, Himalaya Publications House.1982

Jasbir R.K Handbook of military science and Armament Technology: Dehradun, Natraj publications.1987

Jayant Baranwal SP`s Military Year Book: New Delhi, , Guide Publishers.

Singer, H.W Technology Transfer by Multinational Vol. I& II: New Delhi, Ashis.1988

Tiwari V.M.andRajnikant The high tech war at twentieth Century: New Delhi, Vikas. 1996

Rajan,Y.S. Empowering India (with Economic Business & Technological strengths for the twenty First Century) : New Delhi, Hari Anand.2001

Zackerman Sully Sir Science and War: London, Hamish Hamilton,1966

**PAPER-IV (OPTION - I)**

**MILITARY PSYCHOLOGY**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION-A**

1. Military Psychology: Definition, Scope, Significance and its role during war and peace.
2. Psychological Weapons of War: Propaganda, rumour and indoctrination.
3. War Neurosis: Meaning, Causes, Symptoms and effects.
4. Fear and Panic in War: Causes, Consequences and management.
5. Emotional problems and adjustment during war and peace.

**SECTION-B**

1. The significance of personality:-Traits, group behaviour and communication skills in the armed forces.
2. Military Leadership: Meaning, attributes, importance and role of training.
3. Discipline: Definition, purpose and tools of maintaining discipline.
4. Motivation and Morale factors and their utilization in the armed forces.
5. Man Management:-Concept, importance and strategy vis-à-vis armed forces.

**SUGGESTED READINGS**

Bartlett, F.C.: Psychology and the Soldier, Cambridge, Cambridge University Press.

Baynes, John: Morale: A study of Men and courage London, Cassell 1967.

Boring, E.G(ed.): Psychology for the Armed Services, Dehradun, Natraj Publishers.

Chibber, M.L.: Military Leadership to Prevent Military Coup, New Delhi, Lancer International

Copeland, Norman: Psychology and the soldier, Dehradun, English Book Depot. 1967.

Gupta, Col.Ranjit Sen (Retd.): Management of Internal Security, New Delhi, Lancer Publications, Pvt.Ltd.1994.

HasnainQmar: Psychology for the fighting man, Dehradun, English Book Depot, Publishing Company 1967.

Lienbarger, P.M.A.: Psychological Warfare, Washington, D.C. Combat Press 1954.

Likert, Rensis and J.B.Likert: New ways of managing conflict, New-York, Mac Graw Hill Book Company.

Raj Narain: Military Psychology, Agra: National Psychological Co-operation 1st edition 1979.

RajenderNath, Military leadership in India from Vedic time to Indo-pak War.

**PAPER-V (OPTION - II)**

**TERRORISM**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 mark each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION-A**

i. Terrorism: Meaning, concept, philosophy and historical perspective.

ii. Causes of terrorism: Social, Economic, Political and Religious.

iii. Political Terrorism.

iv. International Terrorism.

iii. State Terrorism & State-sponsored Terrorism.

**SECTION-B**

i. Terrorism and National Security.

ii. Strategies of Combating Terrorism:

a. Counter-terrorism measures.

b. Anti-terrorism measures.

iii. Manifestations of terrorism: Small Arms Proliferation, Drug Trafficking and Money laundering.

iv. Terrorism and India’s security.

**SUGGESTED READINGS**

Alexander, Yonah and

Seymour, Maxwell Finger(eds) Terrorism : Interdisciplinary Perspective: New York, The John Jay Press.1977

Brass, Paul R. Ethnicity and Nationalism: New Delhi, Sage Publications.1991

Combs, Cindy C. Terrorism in the Twenty-first Century: New Jersey, Prentice Hall.1997

Juergensmeyer, Mark (ed) Terror in the Mind of God- The Global Rise of Religious Violence: New Delhi, Oxford University Press.2001

Kartha, Tara Tools of Terror: Light Weapons and India’s Security: New Delhi, Knowledge World and IDSA.1999

Lequeur, Walter Terrorism: London, Little Brown and Company.1977

Lequeur, Walter The Age of Terrorism: London, Little Brown and Company.1987

Lequeur, Walter No End to War: New York, Continuum.2003

Lequeur, Walter The New Terrorism: Oxford, Oxford University Press.1999

Marwah, Ved Uncivil Wars: Pathology of Terrorism in India: New Delhi, Harper Collins.1995

Reich, Walter Origins of Terrorism: Cambridge.

Sondhi, M.L.(ed) Terrorism and Political Violence- A Source Book: New Delhi, Har-Anand Publications.1990

Wardlaw, Grant Political Terrorism: Cambridge.1982

Wilkinson, Paul Terrorism and the Liberal States: New York, University Press.1987

**SYLLABUS**

**M.A. PART-II (DEFENCE & STRATEGIC STUDIES)**

**(THIRD AND FOURTH SEMESTER)**

**2016-17 & 2017-18**

**SEMESTER-IV**

**PAPER-I (COMPULSORY)**

**INDIAN SECURITY: ISSUES AND PROBLEMS**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 mark each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION-A**

i. India’s Security problems as a result of partition:

a. Geo-political impact of partition.

b. Effects of partition over Indian Armed Forces and their reorganisation.

ii. Higher Defence Organisation in India.

iii. India’s internal security problems:

a. Militancy in Jammu and Kashmir.

b. Insurgency in North Eastern States.

iv. India’s internal security management.

**SECTION - B**

i. India’s Security problems related to Pakistan, China, Nepal, Bangladesh, Sri Lanka.

ii. India’s Maritime Security:

a. Maritime boundary, Maritime zones, Maritime routes & Island territories.

b. Threats from Sea.

c. Role of Indian Navy and Coast Guards.

iii. Nuclear Threats to India:

a. Nuclear Policy of India.

b. Nuclear Doctrine of India.

c. Nuclear and Missile capabilities of India.

iv. Disaster Management in India.

**SUGGESTED READINGS**

Bajpai,U.S. India and its Neighbourhood: New Delhi, Lancer International.1986

Baranwal, S.P. Measures of Civil Defence in India: New Delhi, Guide Publications.1984

Bobbing, Ross and

Gordon, Sandy(eds) India’s Strategic Future: Delhi, Oxford University Press.1992

Chatterjee,R.K. India’s Land Borders- Problems and Challenges: New Delhi, Sterling Publishers.1978

Chaudhury, Rahul Roy Sea Power and India’s Security, London, Brassey’s.1995

Dass, S.T. National Security in Perspective: Delhi, Gian Publishers.

Karnard, Bharat Future Imperiled: New Delhi, Viking.1994

Kavic, Lorne J. India’s Quest For Security: Defence Policies 1947-1965: LA, University of California Press.1967

Khera,S.S. India’s Defence Problems: New Delhi, Orient Longmans1968

Menon, V.P. The Story of the Integration of Indian States: New Delhi, Orient Longmans.1961

Misra, R.N. Indian Ocean and India’s Security: Delhi, Mittal Publications.1986

Nayar, V.K. Threats from Within: New Delhi, Lancer Publications.1992

Rao, Ramakrishna and

Sharma, R.C.(ed) India’s Borders: New Delhi, Scholars’ Publishing Forum.1991

Rao,P.V.R. Defence Without Drift: Bombay, Popular Prakashan.1970

Singh, Jaswant Defending India: Bangalore, Macmillan India Ltd.1999

Singh, Nagendra The Defence Mechanism and the Modern State: New Delhi, Asia Publishing House.1974

Venkateshwaran Defence Organisation in India: New Delhi, Ministry of Information and Broadcasting, Government of India.1967

**PAPER-II (COMPULSORY)**

**RESEARCH METHODOLOGY**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

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**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

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In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**Section - A**

1. Research Methodology: meaning of research, characteristics and its significance in social sciences.
2. Scientific methods of research in social sciences.
3. Types and formulation of research design.
4. Hypothesis.

**Section - B**

1. Sampling: concept, principles and types of sampling.
2. Data collection: observation, questionnaire, schedule & interview.
3. Processing & analysis of data.
4. Interpretation, processing & report writing.

**Recommended Books**

1. CalaireSaltiz et al (1959) *Research Methods is Social Relation.*
2. Ferd N. Kerlinger (1964) *Foundation of Behavioral Research.*
3. Festinger Leo (1976) *Research Methods in Behavioral Sciences.*
4. Galtung Johan (1970) *Theory and Methods of Social Research.*
5. Kothari C.R, (2007) *Research Methodology- Methods and Techniques.*
6. Kumar Ranjit, (2005) *Research Methodology.*
7. Moser C.A. and G. Kalton (1971) *Survey Methods in Social investigation.*
8. Wilkinson, E.S. and Bhandarkar: P.I. (1982) *Methodology and Techniques of Social Research.*
9. William J. Goode and Paul K. Hat: *Methods of Social Research.*

**PAPER-III (COMPULSORY)**

**SCIENCE, TECHNOLOGY AND INDIA’S DEFENCE PREPAREDNESS**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

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In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION A**

1. Defence research and development in India: Organisation, objectives, achievement & limitations.
2. India’s nuclear programme: Importance, growth, problems and achievements.
3. India’s space programme: Importance, growth, problems and achievements Growth and development of Ocean Technology in India: Achievements, problems and achievements

**SECTION - B**

1. Growth and Development of India’s integrated missile development programme. (IMDP)
2. Information warfare and India’s Security.
3. Cyber Security: Challenges and options for India.
4. Dual use of critical technology and its impact on India’s security.

**SUGGESTED READINGS**

Deva Yashwant Duel-use of Information Technology (An Indo Centric perspective): New Delhi, IDSA.1996

Hard David Nuclear power in India: London, George Allen.1983

Jayant Baranwal S.P’s Military year book: New Delhi, Guide Publishers.

John Erickson The Military Technical Revolution: Its impact on strategy and foreign policy: New York, Frederick A Prager.1966

Khanna S.K India: A Nuclear Power: New Delhi, Commonwealth Publishers.1998

Lal A K Space warfare and Military Strategy.(An Indian Perspective): New Delhi, USI of India.2003.

Rajan, Y.S Empowering India (with Economic, Business and Technology, Strengths for the twenty first century): New Delhi, Har Anand. 2001

Sen, S.K Military Technology and Defence Industrialisation: New Delhi, Manas Publishers.2000

Siddhartha. K Oceanography, A brief introduction 3rd. Edition: New Delhi, Kisalaya Publishers.1999.

Tellis, India’s Emerging nuclear posture: Oxford, Oxford University Press,2001

Tewari, R. and

Tewari, V.M The High-Tech War of twentieth century: New Delhi, Vikas Publishers House.1996

Thee Marek Military technology, Military Strategy and Arms Race: London, Groom Helm.1986

**PAPER-IV (OPTION - I)**

**MILITARY SOCIOLOGY**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION-A**

1. Social aspects of war.
2. Social effects of war:
   1. Impact on society
   2. Impact on military.

iii. Post war social problems:

a. Impact on society: problem of re-settlement of war victims and post war Reconstruction

b. Impact on Military: Demobilization, rehabilitation and social adjustment of released personnel.

c. Social problem of military personnel killed or disabled and implications on their families

**SECTION-B**

1. Social background of military personnel in India.
2. Problems of Ex-servicemen in India
3. Role of Women in Armed Forces: Contemporary trends.
4. Civil military relations: History and contemporary trends.
5. Military Coup: Causes and consequences
6. Civil military relations in India

**SUGGESTED READINGS**

Alix Stracheys: The unconscious motives of war., London, Allen, 1957.

Baynes, J.C.M.: The soldier in Modern Society, London, Eyre Methuen, 1972.

Doorn, Van: The soldier and social change.

Edmonds Martin: Armed services and Society.

Grille: Race, Class and Military.

Gutteridge: Military institutions and power in the New States, London, Pall Mall Press.

Janowitz, Morris: The New Military: Changes pattern of organizations.

Johnson, John(ed.): Race, Class & Military. The role of the Military in under developed countries. Princeton, (Princeton University Press, 1962

Klaus Knorr: On the uses of Military Power in the Nuclear Age (New Jersey Princeton, 1966.

Lang: Military Institutions and the sociology of war.

Leena Parmar: Society, Culture and Military System. Jaipur, Rawal Publications 1994.

Martin shaw (ed.): War, State & Society, London, Macmillan Press 1984.

Morris Janowitz: The professional soldier. A social and politics portrait.(New York, Free Press, 1964.

Subrahmanyam, K: Defence and Development, Calcutta, Minerva Associates, 1973.

**PAPER-V (OPTION - II)**

**MAJOR INTERNATIONAL CONFLICTS AFTER WORLD WAR - II**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Theory: 74 Marks*

*Pass Marks: 35%*

*Internal Assessment: 26 Marks*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus and will carry 11 marks each. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 30 marks in all. Each short answer type question will be carrying 2 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR PRIVATE CANDIDATES**

*Maximum Marks: 100 Time Allowed: 3 Hours*

*Pass Marks: 35%*

**INSTRUCTIONS FOR THE PAPER-SETTER(S)**

The question paper will consist of three sections i.e. Section A, B, and C. Section A and B will have four questions each from the respective sections of the syllabus. In Section A each question will of 14 marks each and in Section B, each question will carry 13½ marks. Section C will consist of 15 short answer type questions which will cover the entire syllabus uniformly and will carry 45 marks in all. Each short answer type question will be carrying 3 marks.

Question paper should be set strictly according to the syllabus and well distributed from all over the syllabus.

In case there are parts in a question, separate marks for each part should be indicated in the question paper.

**INSTRUCTIONS FOR THE CANDIDATES**

Candidates are required to attempt atleast two questions from the section A and B of the question paper and the entire section C.

**SECTION-A**

i. Korean Crisis (1950-53)

ii. Suez Canal Crisis (1956)

iii. Cuban Missile Crisis (1962)

iv. Falkland War (1982)

**SECTION-B**

* 1. The Gulf War (1991)
  2. Iraq Crisis (2002-04 )

iii. Israel-Palestine Conflict

iv. Turmoil in Afghanistan (Post September 11, 2001)

**SUGGESTED READINGS**

Buzan, Barry and

Waever, Ole(eds) Regions and Powers: Cambridge.2003

Chauhan, Sharad S. War On Iraq: New Delhi, APH Publishers. 2003

Cooley, John K. Unholy Wars: New Delhi, Penguin Books2000

Gilbert, Adrian The Encyclopedia of Warfare: Kent, Grange Books.2000

Goldstein, Joshua S, International Relations: New York, Harper-Collins.1994

Hiro, Dilip War without End: London, Rout ledge, 2002

Isaacs, Jeremy and

Downing, Taylor Cold War: London, Bantam Press.1998

Laqueur, Walter No End to War: New York, Continuum.2003

Midlarsky, Manus I.(ed.) Handbook of War Studies: London, Unwin Hyman.1989

Moore, John Norton (ed) The Arab-Israeli Conflict: Princeton University Press.1977

Thomas, Hugh The Suez Affairs: London, Weidenfeld and Nicolson.1967

Tucker, Spencer C. Who’s Who in Twentieth-Century Warfare: London, Rout ledge.2001

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