

# University of Poona

## M.A. DEFENCE AND STRATEGIC STUDIES SYLLABUS

'85 Pattern' (Non-Semester) Examination

(New Syllabus w.e.f. June 1988)

### Core Courses

#### M.A. Part I

- DS-1 Theory and Practice of War.
- DS-2 National Security.
- DS-3 International Relations.
- DS-4 Evolution of Modern Warfare & Geopolitics & Military Geography.

#### M.A. Part II

- DS-5 Defence Economics.
- DS-6 Science & Technology and National Security.

### Optional Courses

- DS-7 Area Studies.
- DS-8 Contemporary Problems of National Security.
- DS-9 International Organisation.
- DS-10 International Law.
- DS-11 Indian Military History.

*Note:* 1. In the First Year all students will study four Core Courses.

2. In the Second Year the students will be required to take two Core Courses and two Optional Courses. Of the two Optional Courses the Course DS-7 Area Studies is to be taken by all the regular students.

3. *External Students:* External students will study four core courses in the First year. In the Second Year the students will be required to take two Core Courses and two Optional Courses from Optional Course Nos. DS-8 to DS-11. External students will not be allowed to take Optional Course No. DS-7 Area Studies.

4. Regular students will be taken to various Defence Establishments during their courses. These Study Tours are subject to clearance by the Government of India and availability of funds with the University.

### DS-1 : Theory and Practice of War

#### SECTION I

1. Theories and Causes of War.
2. World War I—Strategy, Doctrines, Organisation etc.
3. World War II—Strategy, Doctrines, Organisation etc.
4. Limited War—Concept and Meaning.
5. (a) Guerilla Warfare and Low Intensity Operations and its practice in Asia.  
(b) Insurgency and Counter-insurgency-Concept and its application in India.

#### SECTION II

6. (a) The first two generations of Nuclear Strategists and their impact on the contemporary nuclear strategy.  
(b) Conventional Warfare in the Nuclear Age.
7. Theories of Nuclear Strategy and Deterrence.
8. Revolutionary War.
9. Strategy for Peace-Peace Research and Conflict Resolution approaches.
10. Strategic Defence and Strategic Defence Initiative; Reflections on Strategy in the Present and Future.

#### *Books Recommended*

- (1) Anand, V. K. Lt. Col, *Insurgency and Counter-insurgency: A Study of Modern Guerilla Warfare* (New Delhi : Deep & Deep, 1981).
- (2) Brodie, B. *Strategy in the Missile Age* (Princeton : Princeton University Press, 1959).
- (3) Earle, E. M. *Makers of Modern Strategy* (Princeton : Princeton University Press, 1971).
- (4) Emme Eugène M. *Impact of Air Power* (Meerut: English Book Depot, 1974).

- (5) Falls Cyril, *Hundred Years of War*, (London: Gerald Duckworth London, 1961).
- (6) Fuller J. F. C., *The Conduct of War*, (London: Eyre & Spottiswoode, 1962).
- (7) Howard M., *Theory and Practice of War*, (London: Cassell, 1965).
- (8) Kahn Herman, *On Thermo Nuclear War*, (New Jersey: Princeton University Press, 1966).
- (9) Mahan, A. T., *Sea Power* (London: Methuen & Company, 1965).
- (10) Montgomery, *History of Warfare* (London: William Collins, 1968).

**DS-2 : National Security**

**SECTION I**

1. National Security—Concept and Contemporary Applications.
2. National Power—Concept, Constituents and Evaluations.
3. Strategies of National Security.
4. Models of International Security : Balance of Power; Collective Security; Regional Defence Organisations and Non-alignment.
5. Doctrine of Deterrence.

**SECTION II**

6. Problems and Policies of India's Security.
7. India's Internal Security—Socio-Economic and Political Aspects.
8. India and the Super Powers.
9. India and South Asia.
10. India's Nuclear Policy.
11. India and the Indian Ocean.
12. Defence Planning in India.
13. Civil Military Relations in India.

*Books Recommended*

- (1) Barry Buzan, *People States and War*, (London : Wheatshap Books Ltd., 1983).
- (2) Frankel, J., *National Interest*, (London : Macmillan, 1971)
- (3) Garnett John, (Ed.), *Theories of Peace and Security*, (London : Macmillan 1970).
- (4) Kavio L. T., *India's Quest For Security : Defence Policy 1947-1965*, (New York : Columbia University Press, 1962).
- (5) Khera, S. S., *India's Defence Problem*, (Bombay : Orient Longmans, 1968).
- (6) Klaus Knorr, *Military Power and Potential*, (Lexington Massachusetts : D. C. Heath & Company, 1970).
- (7) Mishra, K. P. (Ed.), *Studies in India's Foreign Policy*, (New Delhi : Vikas 1969).
- (8) Moregenthau, H., *Politics Among Nations*, (Calcutta : Scientific Book Agency, 1981).
- (9) Palmer, N. D. & Perkins, *International Relations*, (Calcutta : Scientific Book Agency, 1981).
- (10) Paranjpe, Shrikant, *India and South Asia Since 1971* (New Delhi : Radiant, 1986).
- (11) Sen, Gautam (Ed.), *India's Security Considerations in Nuclear Age*, (New Delhi: Atlantic, 1986).
- (12) Subramanyam, K., *Our National Security*, (New Delhi) Economic and Scientific Research Foundation, Federation House, 1972).
- (13) Thomas, Raju, *Indian Security Policy*, (Princeton: Princeton University Press, 1986).

*Journals*

- (1) Foreign Affairs Reports.
- (2) India Quarterly.

## DS-3 : International Relations

## SECTION I

1. Approaches to the Study of International Relations—Idealism, Realism, Systems Theory, Decision Making Theory.
2. Concept of National Interest and its Role in the Formulation of Foreign and Defence Policies.
3. National Power—Meaning and Elements.
4. National Interest.
5. Role of Ideology in International Relations.
6. Diplomacy—Nature and Old and New Diplomacy.

## SECTION II

7. Arms Control, Arms Limitation and Disarmament.
8. International Economic Relations (i) Role of Economic Instruments in International Politics (ii) Concept of New International Economic Order.
9. Cold War—Origins, Meaning and Evolution.
10. Detente.

*Books Recommended*

- (1) Burton, J. W., *International Relations : A General Theory* (Bombay : George Allen & Unwin, 1971).
- (2) Carr, E. H., *Twenty Years Crisis*, (London : Macmillan, 1958).
- (3) Hartmann, F. H., *The Relations of Nations*, (New York Macmillan, 1969).
- (4) Holsti, K.J., *International Politics*, (Prentice Hall: Englewood Cliffs, 1967).
- (5) Morgenthau, Hans, *Politics Among Nations*, (Calcutta : Scientific Book Agency, 1981).
- (6) Palmer, N. D. & Perkins, H. C., *International Relations*, (Calcutta : Scientific Book Agency, 1981).
- (7) Said, A. A. *Theory of International Relations*, (Englewood Cliffs : Prentice Hall, 1969).
- (8) La Faber Walter, *America, Russia and the Cold War*, (London : John Wiley and Sons., 1967).

*Journals*

- (1) Foreign Affairs.
- (2) World Politics.

**DS-4 : Evolution of Modern Warfare and Geopolitics and  
Military Geography**

**SECTION I**

1. 16th to 18th Century.
  - ( i ) The Renaissance of the Art of War.
  - ( ii ) The impact of Science on War.
  - ( iii ) Military Revolution of the 17th Century.
  - ( iv ) Concept of Dynastic and National War.
2. 19th Century.
  - ( i ) Revolution in War.
  - ( ii ) Concepts of War, its Strategy and tactics, Linkages between War and Politics.
  - ( iii ) Concept of mass army and logistics.
3. Industrial Revolution to World War I
  - ( i ) Importance of Economics and its link with Military power.
  - ( ii ) Military Concept of Revolution, War and Army in Society.
  - ( iii ) Doctrine of Strategic Envelopment.
  - ( iv ) Evolution of the Concept of Sea Power and Naval Strategy.
  - ( v ) French Colonial Warfare.
  - ( vi ) American, Russian and German Military Strategy during the World War I.
4. First World War to the Second World War.
  - ( i ) Concept of Civilian's Role in Military Strategy.
  - ( ii ) Doctrine of offensive during World War I and its impact on the following period.
  - ( iii ) Machine Warfare during 1914-45.
  - ( iv ) Doctrine of limited liability and Mobile defence.
  - ( v ) Role of Air Power in modern warfare—its related theories.

- (vi) Soviet Strategy and its consolidation.
- (vii) Allied Strategy during 1939-45.

## SECTION II

5. Geopolitics.
  - (i) Evolution of Geopolitical thought since 19th Century. Its objectives, scope and conjectures :
    - (a) National Power and Resources.
    - (b) Analysis of the areas of operations.
    - (c) Environmental Engineering.
  - (ii) Principles of Strategic Geography.
  - (iii) Frontiers and Boundaries.
  - (iv) Buffer Zones.
  - (v) Maritime Boundaries, concept of territorial sea, Economic Zones etc.
  - (vi) Land locked States and the problems of access to seas. Emphasis on the linkages of the State.
6. Military Geography.
  - (i) General principles of Military Geography.
  - (ii) Planning process. Importance and discussion of geography as a factor in planning.
  - (iii) Role of geography in Land, Sea and Air Warfare.
  - (iv) Weather and condition of the sea as factors in amphibious and airborne operations.
  - (v) Natural landscape and geographical features—Role in Land Warfare.
7. Logistics and Communications.
  - (i) Resources, problems of supply in different terrains.
  - (ii) Transportation by land, sea and Air.
  - (iii) Accessibility and ease of movement in Jungles, Deserts, Snow bound areas and high altitude areas.
8. Military Geography of India and Defence Problems.
  - (i) India's boundaries, terrain in border areas, weather and communications.
  - (ii) Population in border areas.

*Books Recommended*

- (1) Cronc, B. R., *Background to Political Geography*. (London : Museum Press, Ltd., 1967).
- (2) Earle, E. M., *Makers of Modern Strategy*, (Princeton : Princeton University Press, 1971).
- (3) Emme, *Air Power*, (McCrut, English Book Depot, 1974).
- (4) Halperin, Morton, *Contemporary Military Strategy*, (London : Faber & Faber, 1972).
- (5) Harm Jdi Blij, *Systematic Political Geography*, (New York : John Wiley & Sons, Inc. 1973).
- (6) Kavic, L. T., *India's Quest for Security*, (Berkeley : UCLA, 1967).
- (7) Khara, S. S. *India's Defence Problems*, (Bombay : Orient Longmans, 1968).
- (8) Mahan, A. T., *Sea Power* (London : Methuen & Company, 1975).
- (9) Montgomery, *History of Warfare*, (London: Willaim Collins, 1968).
- (10) Peltier Louis & G. Etzel Percy, *Military Geography*. (New Delhi : Affiliated East-West Press, Pvt. Ltd., 1981).
- (11) Presscot, J. R., *Political Geography*, (London : Methuen & Co. Ltd., 1972).
- (12) Sukhwal, B. L., *Modern Political Geography*, New Delhi : Sage, 1985).

**DS-5 : Defence Economics****SECTION I**

1. Contemporary Economic Theory.
2. India's economic planning—Defence budgeting.
  - (i) General principles of National Finance.
  - (ii) Functions, Objectives and Organisation for budgeting
  - (iii) Parliamentary Control over budgeting.
  - (iv) Determinants of Defence Budget.
  - (v) Performance budgeting.
3. Analysis of India's defence spending—1947 to the Present-Trends.



## 4. Resource Mobilisation and Fiscal Policy of War.

## (a) Domestic.

- (i) Direct Methods, (ii) Fiscal and Monetary Methods, (iii) Economic Implications of Technical aspects of Defence Production in India.

## (b) Foreign.

- (i) Role of Private Capital, (ii) Role of Foreign Capital through Government Institutions, (iii) Problems of imported Technology in Defence Production.

## SECTION II

## 5. Defence Industry.

## (i) Defence Production Organisation.

## (ii) Inspection, Standardization, Research and Development in defence production, Organisation, Role and Functions.

## (iii) History, development, organisation and present position in respect of :

## (a) Production of weapons, Armament equipment, ammunition and explosives in India.

## (b) Aircraft production in India.

## (c) Production of Ships for the Navy.

## (d) Production of Missiles.

## (e) Production of Electronics and Avionics equipment.

## 6. Economic Warfare.

## (i) Scope and content of Economic Warfare.

## (ii) Denial of resources to the enemy.

## (iii) Role of foreign aid.

## Defence and National Economy.

## (i) Problems of Inflationary Economy.

## (ii) Danger of exhaustion of economic resources.

## (iii) Problems of Reconstruction and Rehabilitation.

*Books Recommended*

- (1) Ministry of Defence, Government of India, *Annual Reports*.
- (2) Bhargava, R. N. *The Theory and Working of Union Finances in India*, (Allahabad : Chaitanya Publications, 1977).
- (3) Ghosh, Alok, *Indian Economy : Its Nature and Problems*, (Calcutta : The World Press Pvt. Ltd., 1984-85).

- (4) Gupta, B. N. *Developing of Government Budgeting*, ( Bombay : Asia Publishing House, 1967 ).
- (5) IISS. *Military Balance*, (Yearly).
- (6) Kennedy, Gavin, *The Economics of Defence*, ( London : Faber & Faber, 1975 ).
- (7) Khara, S. S., *India's Defence Problems*, ( Bombay : Orient Longmans, 1968 ).
- (8) Thomas, Raju, *The Defence of India : A Budgetary Perspective of Strategy and Politics*, ( Bombay : Macmillan, 1971 ).
- (9) SIPRI, *The Arms Trade With the Third World*, ( Stockholm : SIPRI, 1971 ).
- (10) Subramanyam, K., *Perspective in Defence Planning*, ( New Delhi : Abhinav, 1972 ).

#### DS-6 : Science and Technology and National Security

##### SECTION I

1. War and Society :
  - (i) War as an instrument of social change.
  - (ii) War as continuation of policy by other means.
2. Technology and Society :
  - (i) Science, Technology and Society.
  - (ii) Different Historical Contexts.
  - (iii) Technological Break throughs and social changes.
3. Impact of Technology on Strategy and Tactics.

##### SECTION II

4. Technology and Interdependence :
  - (i) Structure of international interdependence and Transfer of technology.
  - (ii) Technology and its effects on Weapon systems, strategy, industry and national economy.
  - (iii) Basic Technology e.g. Heavy Engineering; Chemicals and Materials
  - (iv) (a) Nuclear technology.
  - (b) Aero-space.
  - (c) Communications.
  - (d) Automation and Miniaturisation.
  - (e) Marine technology.

- (v) Pollution and depletion of resources.
- (vi) Energy resources and their development; effect on strategy; tactics.
- 5. Science and Technology in India's Defence :
  - (i) Resource base.
  - (ii) Science, technology and industrial growth.
  - (iii) Defence and development and role of defence research and production.
  - (iv) Need for an integrated science policy.
- 6. Perspectives on War and peace in the Future :
  - (i) Chemical & Biological and Environmental Warfare.
  - (ii) Defence, Development and Third World.

*Books Recommended*

- (1) Haskins, C. P., *The Scientific Revolution and World Politics* (New York : Harper Row, 1964).
- (2) Macacy, Kenneths, *Technology in World*, (London : Arms And Armour, 1986).
- (3) Nanda, J.N., *Science and Technology in India's Transformation*, (New Delhi : Concept, 1986).
- (4) Rahman, A & Chaudhary, P. N., *Science and Society*, (New Delhi : CSIR, 1980).

DS-7 : Area Studies

**SECTION I**

- 1. Introduction to Research Methodology.

**SECTION II**

- 2. The study of the following areas :

(i) South Asia, (ii) Indian Ocean.

The study would include political, economic and security considerations of the region.

*Method of Assessment*

- (1) Term End Examination would have questions, on Research Methodology.
- (2) A dissertation would have to be submitted on any topic in the area of South Asia and the Indian Ocean. This would carry 80 marks.

- (3) Two copies of the dissertation should be submitted by the students.
- (4) The evaluation of the dissertation will be done internally by the department.

*Book Recommended*

- (1) Gopal, M. H., *An Introduction to Research Procedure in Social Sciences*, (Bombay : Asia, 1970).

**DS- 8 : Contemporary Problems of National Security**

**SECTION I**

1. Concept of National Security.
2. Evolution of Nuclear Strategy : Concept and Doctrines.
3. Law of the Seas.
4. Strategic Raw Materials and their exploitation from the Sea Bed.

**SECTION II**

5. Phenomenon of Terrorism :
  - (i) International terrorism.
  - (ii) Terrorism in India.
6. India's Internal Security.
7. Role of Intelligence :
  - (i) Intelligence system, (ii) Acquisition, Analysis and dissemination of Intelligence, (iii) Counter Intelligence.
8. National Security Organisation in India.

*Books Recommended*

- (1) Garnett, John ( Ed. ) *Theories of Peace and Security : A Reappraisal in Contemporary Strategic Thought*, ( London : Macmillan, 1970 ).
- (2) Modelski, George, *Principles of World Politics*, ( New York : Free Press, 1972 ).
- (3) Snyder, Glenn *Deterrence and Defence : Towards a Theory of National Security*, ( Princeton : 1961 ).
- (4) Subramanyam, K., *Indian Security Perspective*, ( New Delhi : ABC, 1982 ).
- (5) Wilkinson Paul., *Political Terrorism*, ( London : Macmillan, 1974 )

*Reference*

- (1) Ministry of Defence, Government of India, *Annual Reports*.
- (2) Ministry of External Affairs, Government of India, *Annual Reports*.

## DS-9 : International Organisation

## SECTION I

1. The setting of International Organisation :
  - (i) The Principle of national sovereignty.
  - (ii) International Law.
2. Evolution of International Organisation prior to the League of Nations.
3. The League of Nations : (i) The structure of the League Collective Security System, (ii) The role of the League in maintaining international peace and security.
4. The League and the U.N.—continuity and change.
5. The Structure of the UN (i) General Assembly, (ii) Security Council, (iii) ECOSOC, (iv) Trusteeship Council, (v) ICJ, (vi) Secretariat.

## SECTION II

6. The Structure of the UN.
 

Major Specialised Agencies and Programmes—Structure and role, IBRD-IDA, IMF, FAO, UNESCO, WHO, GATT, IDO, ILO, UNDP, UNCTAD.
7. The UN in operation :
  - (i) Maintenance of Peace and Security.
  - (ii) Promotion of International Economic Co-operation—New International Economic Order.
  - (iii) Decolonisation.
  - (iv) Protection of Human Rights.
  - (v) Promotion of Rule of Law—Adjudication, Development and Codification of International Law.
  - (vi) Regulations of Armaments.
  - (vii) New International Information Order.

*Books Recommended*

- (1) Goodspeed, Stephen, S. : *The Nature and Function of International Organisation* (2nd edn) (New York : Oxford University Press, 1967).
- (2) Mangone G. : *A Short History of International Organisation* (New York : McGraw-Hill, 1954).
- (3) Goodrich, L. N. and Kay, David A (Eds.) : *International Organisation : Politics and Process* (London : The University of Wisconsin Press, 1978).
- (4) Wood, Robert, S. (ed) *The Process of International Organisation* (New York : Random House, 1971).

*Journals*

International Organisation.

DS--10 : International Law

## SECTION I

## 1. Concepts of International Law :

## (a) Nature of International law :

- (i) European contribution.
- (ii) Soviet view of international law.
- (iii) Attitude of Afro-Asian States.
- (iv) Relations with Municipal law.

## (b) Sources of international law :

- (i) Traditional.
- (ii) Art 38 of the Statute of ICJ.
- (iii) New States and customs.
- (iv) General assembly resolution.
- (v) Codification of Law.

## (c) Subjects of International law :

## (i) States :

- (a) types of states
- (b) Recognition of States.
- (c) State succession.

(d) State territory—Maritime boundaries.

Air space.

Territorial Waters.

Economic zone.

Straits.

Archipelágo.

High seas.

(ii) International institutions.

(iii) Individuals.

(iv) Other subjects—

(a) Holy See.

(b) Diminative states.

(c) Colonies.

(d) Protectorates.

(e) Trust territories.

(f) Belligerent parties.

(g) Insurgents.

(d) State Responsibility :

(i) Elements of international responsibility:

(ii) Denial of justice.

(iii) Nationality of claims.

(iv) The Theory of permanent sovereignty over natural resources.

2. Human Rights :

(i) Under General international law.

(ii) Under UN charter.

(iii) Universal declaration.

(iv) Two-covenants.

(v) Protection under other instruments.

(a) genocide.

(b) apartheid.

(c) refugees.

(d) minorities.

(e) torture.

(f) arbitrary execution.

(g) displaced persons.

(vi) Petition by the individuals before international organs.

3. Legal Control of international conflicts :
  - (i) Kellogg-Briand Pact.
  - (ii) UN charter :
    - (a) collective security.
    - (b) peace keeping forces.
  - (iii) National peace keeping forces.
4. Attempt to prohibit war :
  - (i) The League of Nations.
  - (ii) UN Security Council.
  - (iii) UN General assembly.
  - (iv) UN other organs.
  - (v) Regional institutions.
  - (vi) Specialised Agencies & Other functional institutions.
  - (vii) Diplomatic procedure.
    - (a) negotiation.
    - (b) good offices & mediation.
    - (c) inquiry.
    - (d) conciliation.
  - (viii) Arbitration.
  - (ix) Judicial settlement-ICJ.

## SECTION II

5. International law related to law of war :
  - (i) Characteristics of war.
  - (ii) Effect of out break of war.
  - (iii) Hague conventions & Geneva conventions.
  - (iv) War of land.
  - (v) War of Sea.
  - (vi) Air warfare.
6. Nuclear warfare; Chemical & Biological Warfare :
  - (i) Appraisal of weapons :
    - (a) nuclear.
    - (b) biological.
    - (c) chemical.
  - (ii) Red Cross activities and biological & chemical warfare (ICRC).



- (iii) Geneva protocol and before.
- (iv) Activities of international organisation.
- (v) WHO analysis.

#### 7. War Crimes :

##### (i) History & definition :

- (a) Prior to World War I
- (b) During World War I.
- (c) Prior to World War II.
- (d) During World War II.

##### (ii) War crime Trials :

- (a) Nuremberg.
- (b) Tokyo.
- (c) Eichmann.

##### (iii) UN Efforts.

##### (iv) International Law Commission : 1950 : formulation of Nuremberg Principles.

#### 8. Neutrality :

- (i) Relation between Belligerents and Neutrals.
- (ii) Blockade.
- (iii) Contraband.
- (iv) Un-natural service.
- (v) Visitation.
- (vi) Modern development & the law of Neutrality.

#### *Books Recommended*

- (1) Agrawala, S. K., (Ed.) *Essays on the Law of Treaties*, (Bombay : Orient Longmans, 1972).
  - (2) Agrawala, S.K., (Ed.), *New Horizons of International Law and Developing Countries*, (Bombay : N. M. Tripathi, 1983).
- M.A./D...2

- (3) Anand, R. P., *New States and International Law*, ( New Delhi : Vikas, 1972 ).
- (4) Anand, R. P., *Studies in International Adjudication*, ( New Delhi : Vikas, 1969 ).
- (5) Anand, R. P., *Legal Regime of the Sea Bed on the Developing Countries*, ( Delhi : Thompson, 1971 ).
- (6) Chandra, *Law of the Sea* ( Delhi : Mittal, 1985 ).
- (7) Elias, T. U., *New Horizons in International Law*, ( New York : Oceana, 1979 ).
- (8) Green, L. C., *International Law Through the Cases*, ( London : Stevens, 1957 ).
- (9) Oppenheim., *International Law Vol. I*, ( London : Longman Green, 1966 ).
- (10) Sorenson Max., *Manual of Public International Law*, ( New York : Macmillan, 1968 ).

### DS-11 : Indian Military History

#### SECTION I

1. Military System in Vedic, Puranic and Epic Age.
2. Alexander's invasion of India with special reference to Battle of Hydaspus. Contemporary Greek accounts on Indian Warfare.
3. Kautilya's philosophy of War : State Craft; Military Organisation; Weapons, Patterns of Warfare; Foreign Relations, etc.
4. Politico-Military System of Chandra Gupta Maurya with special reference to Megasthenes's account. Subsequent events leading to the overthrow of the Mauryas.
5. Impact of Shung, Kushana and Huna on Warfare.
6. Arab and Turk invasions of India and new trends in Warfare. Rajput Military System and Art of Warfare with special reference to the battle of Somnath and Terrai.
7. Military reforms and pattern of Warfare during the Sultanate period.

8. Babar's invasion of India with special reference to the battle of Panipat and Kanwa. New trends in Mughal art of warfare during reign of Akbar and subsequent period, Causes of the failure of the Mughal Military System.

## SECTION II

- Shivaji as a military leader : (i) Early Guerilla tactics, (ii) Principles of the war and qualities of leadership, (iii) Battle of Javli, (iv) Battle of Pratapgad, (v) Raid on Shahistekhan, (vi) Sack of Surat, (vii) Karanatak campaign, (viii) Jaisingh's campaign.
10. (i) Offensive and Defensive Warfare by the Maratha Kings. (ii) Role of Forts.
11. Organisation of the Maratha army and the Navy in the 17th Century.
12. History of warfare in the period of the Peshwas (i) Battle of Kharda and Rakshas Bhuwan, (ii) Assessment of Bajirao as a General, (iii) Performance of Nana Saheb Peshwa in the field, (iv) Changes in Maratha Army.
13. (i) Influence of Western armies on the Maratha Army, (ii) Role of foreign military commanders, (iii) Maratha cavalry and artillery, (iv) The third Battle of Panipat 1761.
14. First, Second and Third Anglo Maratha War.  
The Pendhari Problems.
16. Some Maratha Warriors : Dhanaji Jadhav, Santaji Ghorpade, Tarabai, Parshurambhau, Bhausaheb, Babu Gokhale, Konhoji, Angre, and Mahadaji Shinde.
17. (i) Military Organisation and pattern of warfare of Khalsa army, (ii) Impact of the Western art of Warfare and subsequent developments in the Sikh army, (iii) Anglo-Sikh Warfare with reference to the Battle of Sohraon, 1846 A.D.

18. Development of the Presidency armies under the East India Company.
19. Critical Analysis of the impact of Western Art of Warfare on Indian Policy.

*Books Recommended*

- (1) Bajwa., Faujasingh, *Military System of Sikhs* (Delhi: Motilal Banarsidass, 1964).
- (2) Dikshitkar, R. C., *War in Ancient India*, ( Madras : Macmillan, 1948 ).
- (3) Duff Grant James., *History of Marathas*, ( New Delhi : Associated Publishing House, 1971 ).
- (4) Kangley, K. P., *Kautilyashustra*, ( Bombay : University of Bombay, 1972 ).
- (5) Sardesai, G. S., *New History of Marathas*, ( New Delhi : Associated Publishing House, 1982 ).
- (6) Sarkar, J. N., *Shivaji and his times*, ( New Delhi : Orient Longmans, 1973 ).
- (7) Sarkar, J. N., *House of Shivaji*, ( New Delhi : Orient Longmans, 1976 ).
- (8) Sen, S. N., *Military System of Marathas* ( New Delhi : K. P. Bagchi & Company, 1977 ).
- (9) Singh, S. D. *Ancient Indian Warfare With Special Reference to the Vedic Period*, ( Leiden : E. J. Brill, 1965 ).

## APPENDIX

## UNIVERSITY OF POONA

## Introduction of "85 Pattern" (Non-Semester) Examinations for Post-Graduate Courses

(I) In pursuance of the decisions of the University authorities, it is hereby notified for the information of all concerned that the new system of examinations will be introduced for the following post-graduate courses from the academic year 1986-87. This system will be called "85-Pattern" (Non-Semester) Examinations.

(II) *M.A. and M.Com. under Faculties of Arts; Mental Moral and Social Sciences & Commerce*

1. There will be 'Term-End' Examination of the first term of the academic year. It will be held on convenient dates some time in November/December, as may be decided by the University authorities.

2. Each paper for the 'Term-End' Examination will be of 60 marks and will have the duration of three hours. The marks obtained by the student out of 60 will then be converted into the marks out of 20.

3. There will be an 'Annual' Examination at the end of the academic year some time in April/May as may be decided by the University authorities. Each paper at the 'Annual' Examination will carry 30 marks and will be of three hours' duration.

4. The question paper for the 'Term-End' Examination will be set on the syllabi prescribed for the first term. The question paper for the 'Annual' examination will be set on the syllabi of the entire academic year. The questions in the 'Annual' examination will be by marks, in the ratio of approximately 40% on the syllabus prescribed for the first term approximately 60% on the syllabus prescribed for the second term.

5. The syllabi as prescribed for the Semesters I and II at M.A. and M.Com. under semester system would continue to be the syllabi of the first term and second term respectively, under "85 Pattern". Similarly the syllabi prescribed for Semesters III and IV under semester system for M.A., M.Com. examinations would respectively be the same under the '85 Pattern'. The Boards of Studies are revising the syllabi according to the '85 Pattern'. The revised syllabi shall be introduced with due notification.

(III) *M.Sc. & M.A. under Science Faculty*

1. For M.Sc. & M.A. in Geography, Statistics and Mathematics courses under Faculty of Science the Semester System will be continued as at present with the conduct of semester-end examinations at the end of each semester. However, the proportion of external and internal components will be changed from 60 : 40 formula to the "85 Pattern" formula of 80 : 20 (80 marks for semester end examination of the course and 20 marks for the internal assessment of the same course).

2. The Practice of Departmental Courses will henceforth be valid for P.G. (M.A., M.Sc.) Courses under the Faculty of Science and NOT for M.A. under Mental, Moral and Social Sciences Faculty, Arts Faculty and M.Com. under Commerce Faculty.

3. The syllabi in the departmental as well as university courses shall be for the time being the same as under the semester system. The revised syllabi as prescribed by the respective Boards of Studies shall be introduced with due notification.

4. Except these University science departments and P. G. centres (for subjects in Science Faculty) situated at other colleges or in recognised institutions which have been granted permission for academic flexibility, all other science departments and P. G. Centres in Science Faculty subjects will follow the Pattern of 12 University Courses + 8 Departmental Courses as at present. These University as well as Departmental Courses should be distributed in equal proportion over the four semesters.

5. For all examinations whether University or Departmental or whether for external assessment or for internal assessment, minimum marks for passing under each head of passing will be 40% subject to the application of existing rules for gracing of marks and condonation of failures. Thus for internal assessment the minimum marks required for passing in course shall be Eight out of Twenty, and for external/semester end examination in a course the minimum marks required for passing will be Thirty-two of Eighty.

(IV) *Standard of Passing at M.A., M.Sc. & M. Com.*

1. The candidate is required to obtain, at least 32 marks out of 80 in each paper at the "Annual" examination. He/she shall be declared to have passed, in the paper, provided he/she has secured an aggregate of 40% marks in the 'Term End' examination and 'Annual' examination taken together, in each paper.

2. The candidate having obtained 32 marks out of 80 marks in the annual examination but failing to obtain an aggregate of 40% marks in the Annual examination and the Term-End examination taken together may improve his/her aggregate performance in the paper either by appearing for Term-End examination or for Annual examination or both. Passing at the Term-End examination is not compulsory.

3. The candidate failing to secure 32 marks in the annual examination shall have to appear for subsequent annual examination in that paper.

V. *Award of Class*

The class in respect of M.A., M.Sc. and M.Com. examinations be awarded to the students on the basis of aggregate marks obtained by the candidates in all the papers at first and second year taken together. The award of class shall be as under.

1. 70% and above—First Class with Distinction
2. 60% and above but less than 70% — First class
3. 50% and above but less than 60% — Second Class.
4. 40% and above but less than 50% — Pass Class.
5. Less than 40% — Failure.

#### VI. *New Examination Pattern*

1. The 'Term-End' examination will be conducted once in the academic year only. The rules/ordinances given in Circular No. 210 of 1982-83 dated 21st January, 1983, will be made applicable for 'Annual' examinations only.

2. The candidates at the M.A., M.Sc. and M.Com. will be allowed to join the Second Year of the same course irrespective of the number of backlogs at the First-Year.

3. In case of M.A./M.Com. semester examinations, students admitted in 1985-86 shall proceed through the Semester stream and last examination under the semester pattern will be held in October/November 1987, April/May 1988, and in October/November 1988.

4. The student who has taken the admission under the Semester System in the academic year 1985-86 or earlier will have to appear for the Departmental Courses as before. From the academic year 1986-87, the Departmental Courses will be termed as *Optional papers*. The responsibility of setting of question papers, of these *Optional Papers* will rest with the University. *However, for the Term End examination of November 1986, the work of setting of question papers and assessing the answer books will rest with the Departments/Post-Graduate Centres concerned, as a special case.*

5. The Term-End examination for the *Optional papers* will be of 60 marks and three hours duration and these marks are to be converted into the marks out of 20.

These marks are to be communicated to the students, college/department concerned.

6. The student who has appeared under the semester system at the M.A., M.Com. examinations but failed at these examinations at the last chance will be required to reappear for the corresponding courses/subjects papers as may be decided by the Boards of Studies. The results of such candidates will be declared in accordance with the semester system. This provision is for the students who have appeared and failed at the last examination to be held in October, 1988 under the semester system.



7. The question banks at M.A. and M.Com. will be delinked from the examinations with effect from 1986-87 for examinations under "85 Pattern".

8. In respect of the external candidate, for M.A. or M.Com. examination, he will have to register and appear for the annual examination of 80 marks per paper only. These marks will be converted into marks out of 100 and the result will be declared accordingly.

9. In respect of the practical examinations in the subjects like Experimental Psychology, Anthropology at the Post-Graduate level, there will be no practical examination at the term end. Practical examinations will be conducted only once at the time of annual examinations as is done in case of Under-Graduate classes.

10. The rates for the paper setting and assessment of answer books at the 'Term-End' examination at M.A. and M.Com. will be the same as prescribed in the schedule 'A' of scale remuneration for examination work Part I existence. The persons entrusted with the work of preparation of the results and conversion of marks will be entitled for a remuneration of Re. 0.50 per candidate as in the case of Under-Graduate classes.

11. The pattern of question papers for the Term End examination at M.A./M.Com. provisionally for October/November, 1986 and October/November, 1987 will be the same as it was under the Semester System. As the question banks are delinked from the examinations, the candidates in new system "85 pattern" will get an over-all option. In other words, candidate appearing under '85 pattern' will be required to answer any four questions out of eight questions of Section I and Section II taken together.

12. The fees to be charged at M.A./M.Com. "85-pattern" examinations will be Rs. 80/- for Term-End examination and Rs. 120/- for Annual examinations.

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