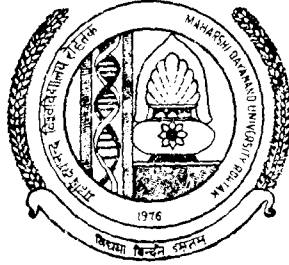


**Maharshi Dayanand University  
Rohtak**



P

**Ordinances, Syllabus and Courses of  
Reading for  
B.A. (Hons.) Defence Studies  
Examination**

**Session—1999-2000**

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**Available from :**

|                                |                             |
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**ORDINANCE : B.A./B.SC./B.COM.(HONOURS)  
EXAMINATION**

1. The Bachelor of Arts(Hons.), the Bachelor of Science (Hons.) and the Bachelor of Commerce (Hons.) Examinations shall be in three parts. Part-I Examination shall be held at the end of the first year Part-II Examination at the end of the second year and Part-III Examination at the end of the third year.

The Examinations in Part-I,II & III shall be held once a year, ordinarily in the month of April/May, on such dates as may be fixed by the Vice-Chancellor.

A supplementary Examination for those who are to re-appear in one or more subsidiary or/and qualifying subject in Part-III shall be held ordinarily in the month of September/October of the same year on a date to be fixed by the Vice-Chancellor.

- 2.(a) No one shall be eligible to join the first year (Part-I) class of B.A./B.Sc./B.Com. (Hons.) Course unless he/she has passed (a) Senior Secondary Certificate (10+2) Examination of Haryana Board of School Education, Bhiwani or (b) B.A./B.Sc./B.Com./B.Sc. (Home Science) Part-I Examination, as the case may be under old scheme of this University; or (c) any other Examination recognised by this University as equivalent to (a) or (b) above, obtaining :-
  - i) For admission to B.A. (Hons.) 50% marks in aggregate or 50% marks in the subject of Hons. course.
  - ii) For B.Sc. (Hons.) 60% marks in aggregate and 65% marks in the subjects of Hons. Course.
  - iii) For B.Com. (Hons.)55% marks in aggregate or 55% marks in the subject of Hons.Course.
- b) No one shall be eligible to join the 2nd year (Part-II),class of the B.A./B.Sc./B.Com. (Hons.) course unless he has passed First year (Part-I) Exam.of the B.A./B.Sc./B.Com. (Hons.) under new scheme of this University.

- c) No one shall be eligible to join the third year (Part-III), class of the B.A./B.Sc./B.Com. (Hons.) Course of this University, unless he had passed 2nd year (Part-II) Exam. (Hons.) under new scheme of this University.
- d) A regular candidate of a Department/College admitted to the privileges of this University in the subject of B.A./B.Sc./B.Com. (Hons.) can attend the course of subsidiary and qualifying subjects in other College/Deptt. in case there is no arrangement to teach these subjects in the College/Deptt. where he has taken admission for his main subjects of Hons. Course. The Principal/Head of the College/Deptt. where a student is attending subsidiary and qualifying subjects shall certify that the said student has completed the prescribed number of lectures etc.
3. The Examination in Part-I/Part-II/Part-III shall be open to person.
- A. Who has passed not less than one academic year previously the requisite Examination as laid down in Clause-2 above.
- B. i) who has been on the rolls of a University Teaching Deptt./College admitted to the privileges of this University throughout the academic year preceding the Examination.
- ii) Whose name is submitted to the Registrar/Controller of Examinations by the Head of the Department/Principal of College he has last attended provided that the Head of the Department/Principal of the College certified that the candidate has :
- a) attended not less than 75% of the full courses delivered to his class in each subject offered by him and 75% of the periods assigned to practical work in each Science subject.
- (Lectures and Practical work shall be counted upto 21 days before the commencement of the Examination).
- b) satisfactorily performed the work of his class; and

- c) Obtained not less than 25% marks in the aggregate of all the subject(s) paper(s) of the result of half yearly house examination held in November/December with 100 marks in each subject.
4. a) A student who is unable to appear in the Annual Examination due to shortage of attendance and has complied with the requirements of Clause-3 (b) (ii) (c) may be exempted from this requirement when he appears in the Examination in the following year or thereafter, after making up the deficiency in lectures.
- b) A student who has completed the required percentage of Lectures and practicals may be permitted to appear in the Examination in the same year or the following year as an ex-student even if as a regular student he did not comply with the requirements of Clause-3 (b) (ii) (c).
- i) For promotion from B.A./B.Sc./B.Com.(Hons). Part-I to Part-II a candidate shall be required to clear 50% of theory papers atleast one theory papers of the main subject and from part-II to Part-III he shall have to clear atleast 50% of the theory paper of the main subject of Part-I and Part-II taken together. While calculating 50% papers fraction may be ignored. For Example, if the number of papers is 5 the candidate will be required to clear atleast two papers. A student will be considered to have cleared Honours Paper(s) if he obtains atleast 40% marks in that/ those paper(s).

Provided that a student joining Honours in the 2nd year may be allowed to clear the first year. Honours paper either in second year or in second and third year together.

- ii) For promotion from Part-II to Part-III, a student shall be required to clear all the subsidiary/qualifying subjects of Part-I of the Honours Course even if such a subject is studied in 2nd year in terms of Clause-2 (b) (ii).

5. a) A student after passing B.A./B.Sc./B.Com.(Hons.) Part-I Examination may be permitted to change over to the B.A./B.Sc./B.Com. Part-II Course within one month of the start of admission to this course provided that the Principal of the College/Head of Department where he is studying, is satisfied that the student will be able to carry on with the new course.

Provided a student after passing B.Sc./B.Com. (Hons.) Part-I Examination shall have to appear in the subject of English of B.A. Part-I alongwith B.A. Part-II Examination, unless he has already qualified in this subject.

- b) A student who joins B.A. Part-II class may be allowed to change one or more of his elective subjects within one month of his joining B.A. Part-II Class.
- c) A candidate appearing in B.A. Part-II Privately may offer elective subjects other than taken by him for B.A. (Hons.) Part-I Examination.
6. The amount of admission fee shall be as under :-

| Name of Examination        | Regular students | Ex-students |
|----------------------------|------------------|-------------|
| 1. B.A.(Hons.) I,II &III   | 100/-            | 110/-       |
| 2. B.Sc.(Hons.) I,II &III  | 120/-            | 130/-       |
| 3. B.Com.(Hons.) I,II &III | 100/-            | 110/-       |

Plus Rs.10/- per practical subject for B.A./B.Sc./B.Com.(Pass & Hons.)

7. A candidate shall submit his admission application to the Registrar/Controller of Examinations on the prescribed form with the required certificates signed by the Head of the University Teaching Department/Principal of the college, the candidate has last attended, both in the case of students of University Teaching Departments/College admitted to the privileges of the University and ex-student.

8. i) The medium of instruction shall be:-
- Hindi in case of Hindi
  - English in case of English, Physics, Chemistry and Maths;
  - English/Hindi or Sanskrit in case of Sanskrit
  - English/Hindi in case of other subjects.
- ii) The question papers will be set:
- in Hindi in case of Hindi
  - in English in case of English, Physics, Chemistry and Maths:
  - in English and Hindi in case of Sanskrit.
  - English/Hindi in case of other subjects.
- iii) The candidates shall write their answers:
- in Hindi in case of Hindi.
  - in Hindi or English or Sanskrit in case of Sanskrit.
  - in English in case of English, Physics, Chemistry and Mathematics; and
  - in English or Hindi in case of other subjects.
9. The minimum number of marks required to pass shall be as under:-
- Main subject (Honours) 40% marks in the aggregate and 35% in each papers (written and practical separately).
  - Qualifying and subsidiary subjects: 35% marks in each for qualifying and subsidiary subjects (written and practical separately)
- 10.i) A candidate who fails in one or more qualifying/subsidiary subjects(s) may be admitted to the supplementary exam. held in the same year and/or at the next annual Examination in the subjects(s) and if he passes in it he shall be deemed to have passed the examination.

A candidate who fails in one or more paper(s) of main subjects of Hons. Part-I/Part-II may be allowed on the recommendation of the Principal of the college/Head of the Deptt. concerned to appear/re-appear in the Examination in the papers(s) as an ex-student, without attending a fresh course of instructions within the period permissible to him to clear the papers of Hons. Part-III under clause-12.

- ii) A candidate who fails in an Examination or having been eligible fails to appear in an Examination, shall take the Examination as an ex-student according to the syllabus prescribed by the University for regular students appearing for the Examination provided that the syllabus for the candidates who are to re-appear in the Supplementary Examination to be held in September shall be the same as was in force for the regular student in the last Annual Examination.
11. A candidate who has completed the prescribed course of instruction in a recognised College/University Department for B.A./B.Sc./B.Com.(Hons.) Part-III Examination but does not appear in it or having appeared fails, may be allowed on the recommendation of the Principal of the College/Head of the University Deptt. concerned, two consecutive chances as an ex-student to appear/re-appear in the subject(s)/paper(s), as the case may be without attending a fresh course of instruction. While re-appearing in the Examination, the candidate shall be exempted from re-appearing in paper(s) and or practical(s) in which he has obtained atleast 40 marks.

Provided that the candidate who does not pass the B.A./B.Sc./B.Com.(Hons.) Examination with the two consecutive chances as an ex-student, may be awarded B.A./B.Sc./B.Com.(Pass) Degree without division, if he obtains atleast 35% marks in each qualifying/subsidiary subject, theory and practical separately and in each paper of the main(Honours) subject, theory and practical separately. Provided further that if he does not satisfy the conditions for the award of pass Degree without division as mentioned

above, he shall be declared to have failed in the Examination and shall be required to appear in the Examination denove, after attending the College/Department as a regular student.

12. The successful candidates of B.A./B.Sc./B.Com.(Hons.) Examination who obtain 60% marks or more in the aggregate of the main subject shall be placed in the first Division, those who obtain less than 60% marks but not less than 50% marks in the Second Division and those who obtain less than 50% marks in the Third Division. For the purpose of determining division at the end of Honours Part-III Examination the marks obtained by the candidate in the Hons. subject only at the Honours Part-I, Part-II and III Examination shall be taken in to account.

However the marks obtained in qualifying subjects and subsidiary subjects will be shown in the result card.

13. Six weeks after the termination of the Examination or as soon as thereafter as is possible, the Registrar/Controller of Examinations shall publish a list of the candidates who have passed the examination. Each successful candidate of B.A./B.Sc./B.Com.(Hons.) Examination shall received a Degree stating the division he obtains.

14. A candidate:

- i) Who has passed B.A./B.Sc./B.Com.(Hons.) Examination of this University or ;
- ii) Who resides within the territorial jurisdiction of the University and has passed an Examination declared equivalent to the B.A./B.Sc./B.Com.(Hons.) Examination of this University may appear in a subsequent B.A./B.Sc./B.Com. subsidiary Examination in one or more subjects prescribed for the Examination except the subject in which he has passed the Examination.

A candidate appearing under this Clause shall sit for Part-I and Part-II Examination simultaneously and shall pay admission fee of as prescribed for to the whole examination and additional fee of Rs. 10/- per Science subject Provided that if



the candidate is appearing in a Science subject, he shall study in a College admitted to the privileges of this University for both Part-I and Part-II classes for atleast one academic year preceding the Examination.

The minimum percentage of marks required to pass in each subject shall be as given in Clause-9 above.

15. The candidates who have passed the B.A./B.Sc./B.Com.(Hons.) Examination in the second or third division be allowed to re-appear in one or more subject(s) (Theory papers only) of main subjects of the Part-I,II and Part-III Examination for improvement of division.

The candidates may also be allowed to improve their score of marks upto 45% in the same manner. However for improvement of division from III to II and to I as well as improvement of score of marks upto 45% only one chance shall be allowed.

Only two consecutive chances will be allowed for improvement. A candidate re-appearing in one or more subject(s)/paper(s) for the purpose of passing/improvement of division shall pay fee as for the whole examination.

The higher score in the paper(s)/subject(s) in which he re-appears for improvement will be taken into account towards the final result and the marks already obtained by the candidate in the paper(s)/subject(s) in which he has not opted to improve his result shall be carried forwarded. In case the candidate does not improve the division his result shall be declared as, Previous Result Stands.

16. Notwithstanding the integrated nature of this course which spread over than one academic year, the Ordinance in force at the time a student join the course shall hold good only for the Examination held during or at the end of the academic year and nothing in this Ordinance shall be deemed to debar the University, from amending the Ordinance and the amended Ordinance, if any shall apply to all students, whether old or new.

**SCHEME OF EXAMINATION FOR B.A. (HONOURS)  
1999—2000**

| Subject  | Ist Year |                           | IInd Year |            | IIIrd Year |            |
|--|----------|---------------------------|-----------|------------|------------|------------|
|  | Main     | qualifying/<br>Subsidiary | Main      | Subsidiary | Main       | Subsidiary |
| 1. English   | 2        | 1+1                       | 3         | 1          | 3          | 1          |
| 2. Hindi   | 2        | 1+1                       | 3         | 1          | 3          | 1          |
| 3. Sanskrit  | 2        | 1+1                       | 3         | 1          | 3          | 1          |
| 4. History   | 2        | 1+1                       | 3         | 1          | 3          | 1          |
| 5. Pol. Sc.  | 2        | 1+1                       | 3         | 1          | 3          | 1          |
| 6. Economics   | 2        | 1+1                       | 3         | 1          | 3          | 1          |
| 7. Psychology  | 3+1*     | 1+1                       | 3+1*      | 1          | 3+1*       | 1          |
| 8. Geography   | 2        | 1+1                       | 2+1*      | 1          | 2+1*       | 1          |
| 9. Sociology   | 2        | 1+1                       | 2         | 1          | 4          | 1          |
| 10. Defence<br>Studies                                     | 3        | 1+1                       | 3+1*      | 1          | 3+1*       | 1          |
| 11. Public<br>Adminis-<br>tration                          | 2        | 1+1*                      | 3         | 1          | 3          | 1          |
| 12. Ancient<br>Indian History,<br>Culture &<br>Archaeology | 2        | 1+1                       | 3         | 1          | 3          | 1          |

**Qualifying Subjects**

1. English
2. Hindi
3. Sanskrit
4. Panjabi
5. Urdu

**Subsidiary Subjects**

Any one allied subject from the following :—

- |             |            |              |
|-------------|------------|--------------|
| 1. English  | 4. Music   | 7. Fine Arts |
| 2. Hindi    | 5. Dance   | 8. Urdu      |
| 3. Sanskrit | 6. Panjabi | 9. French    |

\*These are the practical papers of the main subjects.

(ii)

- |                       |                  |                     |
|-----------------------|------------------|---------------------|
| 10. Economics         | 14. Psychology   | 18. Defence Studies |
| 11. Political Science | 15. Public Admn. | 19. Mathematics     |
| 12. History           | 16. Sociology    | 20. Home Science    |
| 13. Philosophy        | 17. Geography    |                     |

**Note :**

1. The same language cannot be offered as main subject as well as subsidiary and/or qualifying subjects.
2. The syllabus of subsidiary subjects except English is the same as prescribed for the elective subjects of B.A. Pass course. In case of English the Syllabus will be of compulsory English subject of B.A. Pass Course.
3. The syllabus of qualifying subjects will be the same as prescribed for compulsory/elective Hindi, Punjabi, Sanskrit and Urdu of B.A.-I and Compulsory English of B.A. I Pass Course.

## **B.A. (Hons.) Examination in Military Science**

### **SCHEME OF EXAMINATION**

| <b>Part-I Examination</b>   | <b>Max. Marks</b> | <b>Time</b> |
|---|-------------------|-------------|
| Paper-I Indian Military History<br>(Ancient to Medieval)                | 65                | 3 Hours     |
| Paper-II Indian Military History<br>(Post Medieval to 1971)             | 65                | 3 Hours     |
| Paper-III Geo-Political, Economic and<br>Psychological, Aspects of War. | 70                | 3 Hours     |
| <b>Part-II Examination</b>  |                   |             |
| Paper-IV Evolution of warfare<br>(1789 to 1945 A.D.)                    | 75                | 3 Hours     |
| Paper-V (A) Evolution of Armament in<br>history of West                 | 75                | 3 Hours     |
| OR  |                   |             |
| (B) Area Study of China   |                   |             |
| Paper-VI International Relations<br>(Defence Aspects only)              | 75                | 3 Hours     |
| Paper-VII Practical (Map-Reading)                                       | 75                | 3 Hours     |
| <b>Part-III Examination</b>   |                   |             |
| Paper-VIII Warfare  | 75                | 3 Hours     |
| Paper-IX National Security  | 75                | 3 Hours     |
| Paper-X (A) Disarmament, Arms Control<br>and Peace                      | 75                | 3 Hours     |
| OR  |                   |             |
| (B) Area study of Pakistan  |                   |             |
| (C) Ballistics  |                   |             |
| Paper-XI Practical<br>(Tactics upto Pl. Level)                          | 75                | 3 Hours     |

### **B.A. Part-I (Hons.) Examination in Military Science.**

Paper-I Indian Military History  
(Ancient to Medieval)

**Max. Marks : 65**

**Time : 3 Hours.**

1. Art of warfare in Vedic Age (1500 to 600 B.C.); Warfare in Epic and purpenic age.

2. Comparative Study of Indo-Greek art of War with special reference to the battle of Hydaspes (325 B.C.)
3. Mौरyan Military system. Kautilya's philosophy of War Concept of defence and security, military, organisation, and inter-state relations.
4. Decline of charriots and the importance of elephants and chavaly upto 7th century A.D.
5. Rajput and Turk pattern of warfare with special reference to the battle of Tarrain (1192 A.D.)
6. Moghul Art of War and a study of battle of Panipat (1526) and battle of Haldighati (1576 A.D.)
7. Mौरatha Military System with special reference to irregular warfare of Shiva Ji and study of Battle of Panipat (1761)

#### **Books Recommended**

- |  |  |
|--|--|
| 1. The Art of War in Ancient India     | Dr. P.C. Chakaravarti.                 |
| 2. War in Ancient India                | Prof. R.C. Dikshitar.                  |
| 3. Military System in Ancient India    | B.K. Majumdar.                         |
| 4. Military System of India            | J.N. Sarkar                            |
| 5. Kautilya's Arth Shastra             | K.P. Kangeley                          |
| 6. Army of the Indian Mughals          | William Irvin.                         |
| 7. Bharat Ka Sainya Itihas             | Prof M.C. Maheshwari<br>Dr. A.H. Singh |
| 8. Military System of Marathas         | S.N. Sen                               |
| 9. Sainya Vigyan Vol. I                | Maj Shiam Lal                          |
| 10. Generalship of Alexander the Great | Maj. Gen. J.F.C, Fuller                |
| 11. The Wonder that was India          | A.L. Basam                             |
| 12. Indian Art of War                  | Alfred David                           |

#### **Paper-II Indian Military History (Post Medieval to 1971)**

Max. Marks : 65

Time : 3 Hrs.

1. Introduction of Western System of Warfare in India.
2. Military System of East India Company.
3. Military System of Sikhs in the 18th century.
4. Military organisation of Maharaja Ranjit Singh with special reference to battle of Sobraon (1846 A.D.)

5. Indian Liberation Movement (1857 A.D.)
6. Re-organisation of the Indian Army under Crown.
7. Lord Nichenar's Military reform.
8. Role of Indian Armed forces in World War I & II
9. Indian armed forces after Independence.
10. Indo-Pak conflicts of 1948 and 1965.
11. Sino-Indian conflict of 1962.
12. Indo-Pak War-1971 causes, military and political lessons learnt.

**Books Recommended :**

- |                                    |  |
|------------------------------------|--|
| 1. The Military System of Marathas | S.N. Sen                               |
| 2. The Military System of Sikh.    | F.S. Bajwa.                            |
| 3. History the British Army        | Fortesque                              |
| 4. Red coatt to Olivie Green       | V. Longor                              |
| 5. Indian Art of War               | Alfred David                           |
| 6 The Lightening Campaign          | D.K. Palit                             |
| 7. Bharat Ka Sainya Itihas         | Prof. M.G. Maheshwari & Dr. A.K. Singh |
| 8. Ranjit Singh                    | Sir, Lepel Griffin.                    |
| 9. Sainya Vigyan                   | B.N. Maliwal                           |
| 10. Indian Army through Ages       | Lt. Col. Gautam Sharma.                |

**Paper-III Geo-Political, Economic and Phychological Aspect of War.**

Max. Marks : 70

Time : 3 Hours.

**1. Concept of War**

- (a) Definition of War, History of War (Origin of war, Animal warfare premitive warfare, historic warfare) Evolution of war.
- (b) Public opinion and war, causes of war, Prevention of war.

**(GROUP B)**

**2. Geo-Political aspects of War :**

- (a) Physical elements-Location, size and shape.
- (b) Population change and War.
- (c) Resources and War: Industries and Transportation.

## (GROUP-C)

**3. Economic Aspects of War :**

- (a) Mobilization of resources during peace and war.
- (b) Assessment of War potential (resources).
- (c) **Economic Warfare** : Scope and content of economic warfare, denial of resources to the enemy, role of foreign aid.
- (d) Defence Budget of India a brief study. The transition from war to peace, Reconstruction.

## (GROUP-D)

**4. Psychological factor in a war:**

- a) Moral
- b) Discipline
- c) Leadership
- d) Man-Management
- e) Tools of Psychological warfare; Brain washing, mob and party rumour, technique of propaganda. Coercive persuasion.

**Books Recommended :**

1. Quincy Wright: A study of War (Chicago University Press)
2. K. Subramanyam Perspective in Defence Planning
3. A.N. Aggarwal Economic Mobilization for National Defence
4. Van Valkenburg and Stotz Elements of Political Geography
5. J.P. Gole Geography of World Affairs
6. Louic C. Peltier, and G. Etzel Bearcy Military Geography.
7. Qamar Husein Psychology and the Soldier
8. Norman Cope Land Psychology of fighting man.
9. Boring E.G. Psychology for the Armed Services. (Washington; D. C. Infantry Journal Press)

10. Prof. M.C. Maheshwari Yudh Mimansha  
and Dr. A.K. Singh
11. Raj Narain Military Psychology N.P.C. Agra-  
282004 (Kacheri Ghat)
12. Dr. Harvir Sharma Yudh Ke Manviye Avam Bhotik  
Tatva.

### **Part-II Examination**

#### **Paper-IV Evolution of Warfare (1789 A.D. 1945 A.D.)**

Max. Marks : 75

Time : 3 Hrs.

1. Influence of Franch Revolution on military organisation and Principle of Nepoleonic warfare.
2. Theories and Principles of war by Clausewitz and Jomini.
3. Industrial revolution and its impact on military power.
4. American civil war (1862-65): Introduction, causes and events (in brief) and its effects on warfare.
5. Transformation of war in the 19th century-Motkex and Foeb.
6. Russo-Japanes War (1904-1905) Introduction, causes and event and its political consequences.
7. Armoured Warfare: Concepts of Fuller, Guderian and Liddel Hart.
8. Development and application of Air power, Douhet, Mitchell and Modern Trends.
9. Sea-power-contribution of Mahan on naval warfare.

#### **Books Recommended**

1. The Decisive Battles of the Western World and their influence upon History (Vol.III) : J.F.C. Fuller
2. Makers of Modern Strategy : E.M. Earle.
3. Thoughts on War : Liddel Hart.
4. A Hundred year of War : Cyril Falls.
5. Paschatya Sainya Vicharak : Maj. R.C. Johari.  
(Hindi)
- 6- American Civil War : J.F.C. Fuller



7. The Decisive Battles of the  
Hind. World War : Young Peter Brig.
8. The Conduct of War : J.F.C. Fuller.

**Paper-V Evolution of Armament in the history of West**

Max. Marks : 75

Time : 3 Hours

1. **Influence of Armament on the history of West.**
  - a) Inter-relationship of Weapons and Tactics.
  - b) Wintringham's theory and J.F.C. Fuller's classification.
  - c) Constant Tectical Factor.
2. The age of Valour : Comparative study of Greek, Phalanz and Roman Legion. Study of Battle of Arbela (331 B. C.) Military contributions of Alexander the Great.
3. The age of Chivalry : Study of the Battle of Hastings. (1068 A.D.) and the Battle of Greycy (1346 A.D.)
4. The Age of Gunpowder : (A) Advent of Fire arms and re-emergence of Infantry. Impact of Science and technology on warfare, (b) Military reforms and contributions of Gustavus Adolphus and Fradrick the Great.
5. The Age of Steam : Revolution in tactics, French revolution (1789 A.D.)
6. The Napoleonic art of War.
7. The Age of Oil Evolution of tactics, weapons and new devices (a) from 1900 A.D. to the end of World War I, (b) between the two world wars and (c) during the World War-II respectively.
8. The Age of Atomic Power : Weapon tactics and its impact on warfare.

**Books Recommended**

- |                                      |                  |
|--------------------------------------|------------------|
| 1. Armament and History              | J.F. C Fuller.   |
| 2. Weapons and Tactics               | Tom Wintringham. |
| 3. Yodhan Sambhar (Hindi)            | M.P. Verma.      |
| 4. Sainya Vigyan Vol. II (Hindi)     | Shiam Lal.       |
| 5. Sainya Vigyan (Hindi)             | B.N. Maliwal.    |
| 6. An Introduction to the art of war | S.T. Das.        |

**Paper-V (B) Area Study of China**

**Group-A**

**General Introduction**

Location, Size shape

1. Military geography (including and industrial resources).
2. The people and their Characteristics.

**Group-B**

1. The Nationalist revolution.
2. Dr. Sun-Yat's Government.
3. The Nanking Government.
4. Sino-Japanese war (1937-45) Role of China in World War II.
5. Civil War.

**Group-C**

1. Foreign Policy with particular reference to U.S.A., U.S.S.R. India and Pakistan.
2. Defence Potentialities.
3. Party-army relationship.
4. Armed Forces.

**Books Recommended**

- |                                       |                |
|---------------------------------------|----------------|
| 1. Modern History of China            | Mc Alway Beury |
| 2. The Political History of China     | Nung Wichan    |
| 3. History of Modern China            | Gupta R.S.     |
| 4. The awaking of China               | Polissar Regar |
| 5. The Red Army of China              | Relence Edger  |
| 6. A Military History of Modern China | Liu F.D.       |

**Paper-VI International Relations Defence Aspects**

Max. Markes : 75

Time : 3 Hrs.

**Group-A**

1. **Power :**  
Definition, Methods of exercising power and the measurement of power.
2. **National power :**  
Definition, elements of Nation-power and their relative importance and the limitations of National power.

3. **Ideology :**  
Its definition : types and the role of ideology in International politics.
4. **International Morality :**  
Definition, International moral code pertaining to the protection of human life in peace and war times, morality of the ruling elite difference between the state morality & individual morality role in International relations

Group-B

5. **Causes of the First World War.**
6. **The peace Settlement 1919-23.**  
The treaty of versailles; the treaty of St. Germain the treaty Trianon; the treaty of Neuilly, the treaty of sevres and the treaty of Lausanne; creation of new states.
7. **League of Nations :**  
Its purpose and Organisation; Language and the problem of collective security. Estimate of League's work and causes of the failure of the League.
8. **Causes of the Second World War.**
9. **United Nations :**  
Its purpose and principles; organisation estimate of its work: Its superiority over the league of Nation proposals for strengthening it. U. N, and the problems of collective Security; merits and limitations of the U.N. collective Security System.

Group-C

**The Theory of Balance of power and the New Balance of Power :**

Various meanings; evolution of the balance of Power, assumptions behind the balance of power theory, and methods of the balance of power.

11. **National Interest :**  
Definition, national interest and foreign policy, security and national interest:
12. **Foreign policy of U.S.A. & U.S.S.R. (current) :**

**Books Recommended :**

1. Morgenthau H.S. Politics Among Nations (1967)
2. Mahendra Kumar Theoretical Aspects of International Politics (1976).
3. Raghubir Chakra Varti International Relations.
4. Palmer and Per Kins International Relations (1970).
5. Quanicry Wright The study of International Relations (1970).
6. S.B. Fay Origins of the First World War.
7. E. Lipsan Europe in the 19th & 20th Centuries
8. E.H. Carr International Relations between the two world war 1919-1939.
9. F.P. Walters The History of the League of Nations.
10. A.J.P. Taylor Origins of the Second World War.
11. Joseph Franker The making of Foreign policy.
12. Ernest R. May The American Foreign policy.
13. M. Bellor The Foreign policy of Soviet Russia.
14. Dr. A.K. Singh Defence Mechanism of Modern State.
15. Dr. Harvir Sharma Rashtriya Pratiraksha.

**Paper-VII Practical (Map Reading)**

M.M. : 75

Time : 3 Hours

Practical Record : 7

Viva on Practical : 8

Viva on Current events preceding one year

(Defence Aspects only) 10

Laboratory Work : 50

- (1) Grid System Four Figure, Six Figure References.
- (2) Scale-Construction of simple, Time comparative scaleline.
- (3) Measurement of distances between two points on map and same two points on ground.
- (4) North, types of North and finding North - equal altitude method, watch method compass method etc.

- (5) Boarding and conversion of bearing.
- (6) Determination of individual compass error.
- (7) Determination of one's own position and enemy's position on a gridded map.
- (8) Relief features and their representation on the map.
- (9) Slopes : Degree and gradients.
- (10) To determine intervisibility between two points.  
Gradient method proportion method and section drawing method.
- (11) To draw the field sketch from a Robite reports.
- (12) Viva on current events preceding one year (Defence aspects only).

**Books Recommended**

1. Military Men Reading-Gale and Poldon.
2. Sanik Man Chitra Vigyan (Hindi) : M.P. Verma
3. Prakriyatmak Sainya Vigyan(Hindi) Srivastava & Srivastava Volume I
4. Prayogtmak Sainya Vigyan (Hindi) B.N. Maliwal.
5. Map Reading I & II M.L. Ranjan (N.C.E.R.T.).

**B.A. Part-III (Hons.) Examination**

**Paper-VIII Modern Warfare :**

(GROUP A)

1. **Nature of Modern War :**
  - i) War as an instrument of Policy.
  - ii) Features of Modern War.
  - iii) Types of Modern War (a) cold war, Diplomatic war psychological war, economic war (b) limited war origin, objectives, limited war vis-a vis total.
  - iv) Humanization of war-Geneva convention.
  - v) Principles of war.

(Group-B)

**Guerilla Warfare :**

- i) Guerilla warfare (in general), Origin, Principles, techniques.
- ii) History of Guerilla warfare, specially since world War-II.
- iii) Thoughts of MaoTse Tung: CheGuevera on Guerilla warfare.
- iv) The insurgency in India.

**Group-C**

**Nuclear Warfare :**

- i) Beginning of nuclear era.
- ii) Main destructive of effects of nuclear energy, flash, heat thormal radiation, blast and nuclear radiation.
- iii) Missiles Ballistic and guided.
- iv) Rockets.
- v) Theories of Nuclear Warfare : deterrence and massive retaliation.

**Books Recommended**

- |   |                                   |
|---|-----------------------------------|
| i) Quiney Wright                                  | A study of war.                   |
| ii) J.F. C. Fuller                                | Armament and History.             |
| iii) -do-   | The Conduct of war.               |
| ie) M.P. Verma                                    | Samrik Sidhanta (Hindi)           |
| v) D.K. Palit                                     | War in Deterrent Age.             |
| vi) -do-  | Essentials of Military Knowledge. |
| vii) Osanka F.N.                                  | Modern Guerilla Warfare.          |
| (viii) Parus Ram Gupta                            | Guerilla Warfare (Hindi).         |
| ix) Sampooran Singh                               | India and the nuclear Bomb.       |
| x) M.P. Verma                                     | Yodhan Samphar (Hindi)            |
| xi) Tripathi K.S.                                 | Evolution of Nuclear Strategy.    |
| xii) Brodie Benard                                | Strategy in the Missile Age.      |
| xiii) Prof. M.C. Maheshwari<br>and Dr. A.K. Singh | Yodhan Mimansha.                  |

**Paper-IX National Security**

Max. Marks : 75

Time : 3 Hrs.

**1. Essentials of National Defence in General :**

Geostrategic factors; political strength; Economic strength  
Scientific, Technological and Industrial development;  
Transportation and communication, Internal security,  
National Morale and will; The defence mechnism of State.

**2- National Security of India :**

India's Security problems and Foreign policy since independence to date with reference to :-

- a) Frontiers-land, Sea and air.
- b) Attitude of the neighbouring nations.

- c) Political and economic developments.
- d) Defence policy, Civil and Military.
- 3. Defence capabilities of India :-  
The armed strength of India: defence production and the defence preparedness.
- 4. Contemporary problems of Indian defence :-  
Sino-Pak axis, the Indian ocean
- 5. Maintenance of Internal peace, law and order, role of para-military and regular armed forces in-aid to civil authorities.
- 6. India's nuclear policy and development.

**Books Recommended**

- |                       |  |
|-----------------------|--|
| 1. Panikker K.M.      | Problems of Indian Defence.            |
| 2. -do-               | India and the Indian Ocean.            |
| 3. Singh Nagendra     | Defence Mechanism of the Modern State. |
| 4. Khera S.S.         | India's Defence Problem                |
| 5. Shah A.B.          | India's Defence and Foreign Policies.  |
| 6. Misra K.P.         | Studies in Indian Foreign Policy.      |
| 7. Rao, P.V.R.        | Defence without Drift.                 |
| 8. Jain J.P.          | Nuclear India (Vol. I II).             |
| 9. Chopra, M.K.       | India and Search for power.            |
| 10. Aggarwal, R.K.    | Defence production and Development.    |
| 11. Dr. Harvir Sharma | Bharat Ki Suraksha Samasya.            |

**Paper-X (A) Disarmament Arms Control and Peace**

Max. Marks : 75

Time : 3 Hrs.

- i) Basic concepts of disarmament and Arms control. Different forms of Arms control. The role and characteristics of Arms control International Security prespects of Arms control.
- ii) History of Disarmament and Arms control, Role of League of Nations and U.N.O. proposal and Agreement of 1917, Washington Naval agreement of 1922. London Naval conference 1930, Baruth Plan, Antarctica Treaty. The Rapack Plan and counter proposals, practical Test Ban Treaty 1963, outer space Treaty. Prohibition of Nuclear Weapons in Latin America N.P.T. and Sea-bed-Treaty. SALT-I & II, Their critical analysis and implications.

- iii) The disarmament policies of the main powers and factors affecting them. The relationship of disarmament and arms control policies and national strategic interest. The problems of verification and enforcement. The political and economic consequences of a disarmed world.
- iv) Peace and its Historical effects for preservation of peace through power balance and voluntary unions. Peace through a world strategy of peace. Principles of Panch-Sheel' and Non-Violence.

**Books Recommended**

- 1. Headley Bull            The control of the Arms Race.
- 2. Brenan D.C.            Arms control and disarmament (J.Cape 1961).
- 3. Lovine Rebert A        The Arms Debate (Harvard 1963).
- 4. Singer, J.D.            BETERRANCE, Arms, control and disarmament.
- 5. Edwards                Arms control in International Politics (Hold, Rein Hardt. N.I.)
- 6. Stone, J.J.             Containing the Arms Race (N.I.T. Press)
- 7. Dougherly and         Arms control for the late Sixties. (Van Lechman Bostran
- 8. SIPRI Year Book        Armament and Disarmament, 1969-70. of World
- 9. Prof. M.G. Gupta.     Contemporary world politics
- 10. The Arms Race-Philip Noel-Baker.
- 11. The spread of Nuclear Weapons-Leonard Beston Mad
- 12. Problems of National Strategy H.A. Kissinger.
- 13. International Peace Observation Prof. M.G. Gupta
- 14. Nuclear War and Nuclear Peace-Har Kanii.
- 15. Disarmament and the Economy-Kenneth E. Boulding.
- 16. Arms control Agreement-John Horkiss.
- 17. The Armament Race and the Developing Countries-Tams Baekskai.
- 18. Dissarmament and world peace By Dr. Ashok Kumar Singh



Paper-X (b) **Area Study of Pakistan**

Max. Marks : 75  
Time : 3 hrs.

(Group-A)

1. **Military Geography** : Location, size, area (including economic industrial resources).
2. The people and their characteristics.
3. **Birth of Pakistan** : The congress League Scheme, the growth of Muslims separatism from safeguards to separate homeland, the partition of British India.
4. **Political developments and military Revolution** since its birth.

(GROUP-B)

5. **Foreign Policy with Particular reference to U. S. A., U.S.S.R., China Relations with India** including following Wars :--
  - (a) Jammu and Kashmir operations (1947-48)
    - (i) Circumstances leading to the aggression by Pakistan.
    - (ii) Military operations (an out line) till Baramula was retaken with special reference to the Battle of Shellatang
  - (b) Indo-Pakistan war (1965) :-
    - (i) Events Leading to the war
    - (ii) Study of war (an outline) with particular reference to the Battle of Khem Karan.
7. **Birth of Bangladesh** :
  - a) Events leading to the Indo-Pakistan War 1971)
  - b) Outline plans of India and Pakistan
  - c) Study of war in outline.

(Group-C)

8. **Defence Potential**
9. **Advanced Weapons development as in 1977**
10. **Armed forces as in 1977.**

**Books Recommended**

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| 1. Sayeed Khalid. B               | Pakistan (the formative Phase)   |
| 2. Akhter Jama Dass               | Political conspiracy in Pakistan |
| 3. Loshak David                   | Pakistan Crisis.                 |
| 4. J. S. Bhargava                 | Pakistan Crisis.                 |
| 5. Mohd. Ayu. and K. Subramaniam. | Liberation War.                  |

6. Sita Ram Johasi Indo-Pak War 1965.
7. D.R. Man Kehar Twenty two fateful days.
8. D.K. Palit Lightening campaign
9. Hugh Tin Ker India and Pakistan
10. B.M. Kaul Confrontation with Pakistan
11. Sangat Singh Pakistan Foreign Policy.
12. Published by International Military Balance.  
Institute for Strategic  
Studies London.

PaperX (C) **Ballistic**

Max. Marks : 75

Time : 3 Hrs.

**(A) Internal Ballistic**

Introduction, energy and dynamical the form function and the rate of burning. Solutions upto All Burnt position. Maximum pressure, Muzzle velocity, effect of variations in loading conditions Introduction to the American system. Theory of recoilless high low pressure and hyper velocity guns. The composite and moderate charges.

**(B) External Ballistics :**

Motion in Vacuum, form and resistance factor, Mach number and Reynold's number Motion with air resistance. Ballistic coefficient. The Siacci solutions problems of low angle fire: the primary and secondary functions and their applications, extension of higher angles of production. Small angle methods, materiological factor wind temperature, humidity, the dynamics of stating shall stability and drift

**(C) Ballistics of Rockets :**

History of Rocket development, V-2 and its working. Evaluation of Rocket propulsion, multistage Rocket, velocity of escape, conditions for entering into orbit, various types of satellites trajectories. Problems of Re-entry, Military uses of space and satellite. :

**Books Recommended :**

1. Wimpres R.N. Internal Ballistics of solid fuels  
Rockets.
2. Davi and Pallin Exterior Ballistics of Rockets.
3. Harmann Exterior Ballistics.

4. HMSO Interior of Ballistic-Hunte.
5. Corner. J. Theory of Interior Ballistics of Guns (Willey)
6. Koot and Uylan Boggert. Ballistics of the future.

Paper-XI Practical (T.E.W.T.) Tactical Exercises M.M. : 75  
without Troops Time 3 Hrs.

|  |    |
|--|----|
| Practical Record                             | 7  |
| Viva-Vcoe on practical                       | 8  |
| Lecture on any topic<br>of National Security | 10 |
| Laboratory Work                              | 50 |

1. Platoon Tactics
  - A. Detail study of Infantry platoon organization with weapons and equipments.
  - B. Platoon formations.
  - C. Fire Control orders.
  - D. Vernal orders (Platoon level)
  - E. Battle procedure (Roft)
  - F. Appreciation of situation upto platoon level in various operations platoon in Attack, platoon in Defence and platoon in withdrawal.
  - G. Military Message writing.
2. 10 Minutes lecture on any topic prescribed in National Security paper.

Note : 1. Atleast Eight exercises are to be carried out on sand Model. The Practical examination should also be conducted on the basis of sand Model Exercises.

2. The candidate is supposed to have knowledge of platoon Commander or in TEWT he is to act as platoon Commander.

**Books Recommended :**

1. Prakriyathak Sainya Vigyan Vol. II T.M. Srivastava
2. Sand Table Exercise Col. Veleutine
3. Prayogatmak Sainya Vigyan Vol. II. B.N. Maliwal.