

## Format for U.G. Examination

The entire curriculum is to be divided into four units and each question paper will have :

1. First question – compulsory- Comprising of TEN Short Answer Questions (1 to X) covering the entire curriculum. This question will carry 40% marks of the total marks.
2. The rest of the question paper will be divided into Four Units, comprising of Two questions in each unit. Therefore , the total number of question in each paper shall be NINE.
3. Student will have to attempt one question from each unit.
4. All these (Four) questions will be of equal marks and will carry 60% marks of the total marks.
5. The minimum passing marks in each paper shall be 33% of the total marks. The candidate has to pass theory and practical separately. Total passing percentage (aggregate) to obtain the degree shall be 36%.
6. In the part I and II, there shall be two theory papers and one practical. Maximum marks shall be 35/50 for B.A. and B.Sc. respectively. For practical, it shall be 30/50 marks for BA and B.Sc. respectively.
7. In Part III there shall be three theory papers and one practical maximum marks shall be 35/50 for B.A. and B.Sc. respectively. For Practical, its shall be 45/75 marks for B.A. and B.Sc. respectively.

## SUMMARY OF PAPERS

### B.A./B.SC. PART-I

1. Art of war in India (upto 1947)
2. Evolution of Armament and Western Art of Warfare
3. Practical- Map Reading

### PART-II

1. Art of war in India (after 1947)
2. National Security
3. Practical - TEWT

### PART-III

1. Evolution of Strategic Thought
2. Military Psychology
3. Study of War
4. Practical

**B.A./B.SC. PART-I**

**Paper-I Art of War in India (upto 1947)**

M.M.: 35/50

**Unit-I: Ancient India(326 B.C.)**

- (a) Military system in Vedic and Epic Age.
- (b) Battle of Hydaspes
- (c) Decline of chariots and rise of cavalry

**Unit-II: Military System from 326 B.C. to 1192 A.D.:**

- (a) Kautilya's Philosophy of War - organization and art of war
- (b) Rajput Military system
- (c) Battle of Terrain 1192

**Unit-III: Medieval India (From 1192 to 1846)**

- a) Invasion of Turks - Battle of Somnath
- b) Mughal Military systems - Mansabdari System, First Battle of Panipat (1526 A.D).
- c) Maratha Military System - Guerilla Concept, Third Battle of Panipat 1761
- d) Sikh Military system - Battle of Soberaon (1846)

**Unit-IV: Modern India**

- (a) Armed forces under East India Company
- (b) First war of Independence 1857
- (c) Armed forces under the crown
- (d) Presidency Armies and Indianization of Armed Forces

**BOOKS RECOMMENDED**

1. Singh S D - Ancient India war fare with special reference to vedic period.
2. Majumdar, B.K. - Military system in ancient India.
3. Majumdar, B.K. - Bhartiya sena ka itihās
4. Fullar JFC - Generalship of Alexander the Great
5. Kongle, RP - Kautilya's Arthashashtra

6. Sarkar Jadunath - Military history of India
7. Irvin - Bhartiya mugalon ki sainya vyavastha (translated)
8. Sen S N - Military system of maratha
9. Mishra Somnath-Sainya Vigyan Part -I
10. Bajwa FS - Military system of sikh
11. Tripathi R P - Rise and fall of the mugal
12. Gupta N R - Marathas and Panipat
13. Sharma Y K - Military science part 1
14. Pandey and Chaubey - Sainya Adhyan
15. Tewari, N P Bhartiya Sainya Itihaas (Sharda Prakashan Aild.)
16. Singh, Lallan-ji - Bhartiya Sainya Itihaas aur Yudh Ke Siddhant
17. Singh Girish & Agarwal Prashant-Bhartiya Yudhkala
18. B.P.Singh & J.M.Srivastava-Bhartiya Yudhkala Part-I

## **PART-I**

### **Paper-II Evolution of Armament and Western Art of Warfare**

M.M.: 35/50

#### **Unit-I: Age of Valour and Chivalry**

- (a) Organization and art of war of Greek phalanx and Roman legion
- (b) Emergence of armour and armoured knights.
- (c) Battle of Cane

#### **Unit-II: Age of Gun powder and Steam**

- (a) Tactical Reforms of Gustavas Adolphus
- (b) Development of naval power
- (c) Battle of Cracy

#### **Unit-III: Age of Oil and Atomic Energy**

- (a) New devices of world war-I and II
- (b) Effect of atom on war

#### **Unit-IV: Cyber warfare-Development of Science and Technology**

- (a) Impact of Science and Technology on War
- (b) Cyber Warfare and its Importance

#### **BOOKS RECOMMENDED**

1. Fuller, J.F.C. Armament and History
2. Tandon, B.K. Pashchaty a Yodhan Sambhar.
3. Tewari, N.P. Yodhan Sambhar
4. Verma M.P. Yodhan Sambhar
5. Arther Birnie Art of War
6. A.P.J. Abdul Kalam - Mere Sapno ka Bharat
7. Fuller The American Civil War
8. "Nuclear Weapon" A book published by UNO
9. Martin Van Preveld Technology & War

## PART-III

### Paper-III Practical Map Reading

1. Introduction of Map topographical sheet
2. Conventional signs - geographical and military
3. Finding out north by different methods
4. Grid system - Four figure and six figure map reference, index to sheet
5. Scale - simple and comparative scale, construction and interconversion
6. Liquid prismatic compass - uses by day and night
7. Bearing - interconversion and use of service protractor
8. Determination of position on a grided map, resection and intersection
9. Determination of visibility on survey maps of hilly region by gradient proportion and section drawing method.

### BOOKS RECOMMENDED-

1. Verma MP - Sainik manchitra vigyan
2. Sharma, YK - Map reading
3. Singh Balwant - An easy approach to map reading
4. Gale and Porden - A complete guide to military map reading
5. Srivastava, JM Practical military science part 1
6. Maliwal, BN - Military science practical