

**DEPARTMENT OF DEFENCE STUDIES  
GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)**

**Programme Specific Outcomes**

**PSO1.** Develop the understanding of Indian military history, art of war, military system and war affecting chronology.

**PSO2.** Understand the defence mechanism of power countries, higher defence organization, Armed forces, Paramilitary force & intelligence system.

**PSO3.** Develop the understanding of western military history and system. War affecting chronology.

**PSO4.** Understand the military thoughts. Internal and external threats.

**PSO5.** Understand the war and peace, UNO and other peace establishment agencies. **PSO6.** Understand the modern warfare. Do the Lab work – Lecturing, Group discussion, section level exercises.

**Programme Outcomes**

**PO1 - Critical thinking** – Syllabus for different subject in the UG programme in prepared by central board of studies dully approved by co-ordination committee headed by Honourable Governor. The combination of different subject in the graduation level in offered by the students in a way that apart from the knowledge gathering, they must develop critical thinking about the subject and also able to checking out the assumptions and ideas from different perspectives.

**PO2 - Effective communication** -Apart from science subjects, two language papers are also included in the graduation programme, must be aiming toward development of communication skills. Hence at the time of graduation students will be able to connect people, ideas, Books, media and technology.

**PO3 - Social interaction** –In graduation programme of science subjects, apart from the practical practices,most of the subjects carry field practices and field studies for better exposures of students. During the exposure they interact and participate in discussion with personnel, social activities. Which help them to reach conclusion in group setting.

**PO4 - Effective citizenship** –During the regular three year degree programme, a student actively participate in NCC, NSS and cultural activities. The participation will help then in developing effective citizenship, awareness of issues and concern about the national development.

**PO5 - Ethics** – College administration during the implementation of syllabus sees that the subject of science field given to the students in theories and practical, in such a way that they develop value system among the students and understanding regarding the moral dimension.

**PO6 - Environment and sustainability** –As per the supreme court guidelines, the graduation syllabus of this institute contains the studies related to Environmental issues in which the students are given projects pertaining to the social concern apart from this different subject like Botany, Geology, Chemistry, Zoology are included localized Environmental issues for studies. It will help students to understand the issues of Environmental context and sustainable development.

**PO7 - Self-directed and life long learning** – With the changing time and as per need of an hour the syllabus are constructed and implemented in such a way that students even after completing their graduation may acquire their ability to life long learning process. For this applied aspect of syllabus are taken for the consideration.

**DEPARTMENT OF DEFENCE STUDIES**  
**GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)**  
**B.Sc. I 2019-20**  
**SYLLABUS AND MARKING SCHEME**  
**2019-20 SEMESTER**

Paper No.	Title of the Paper	Marks Allotted in Theory/Practical	
		Max.	Min.
I	INDIAN MILITARY HISTORY	50	17
II	DEFENCE MACHANISM OF THE MODERN STATE	50	17
III	Practical	50	17
	Total	150	51

Signature-

H.O.D.

Representative from Industry

External Subject Experts- 1.

2.

3.

Student Member-

Departmental members – 1.

2.

3.

Principal

Govt. N.P.G. College of Science,

Raipur (C.G.)

**DEPARTMENT OF DEFENCE STUDIES**  
**GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)**  
**B.Sc. II 2019-20**  
**SYLLABUS AND MARKING SCHEME**  
**2019-20 SEMESTER**

Paper No.	Title of the Paper	Marks Allotted in Theory/Practical	
		Max.	Min.
I	WESTERN MILITARY HISTORY	50	17
II	THEORY AND PRACTICE OF WAR	50	17
III	Practical	50	17
	Total	150	51

Signature-

H.O.D.

Representative from Industry

External Subject Experts- 1.

2.

3.

Student Member-

Departmental members – 1.

2.

3.

Principal

Govt. N.P.G. College of Science,

Raipur (C.G.)

**DEPARTMENT OF DEFENCE STUDIES**  
**GOVT. NPG COLLEGE OF SCIENCE RAIPUR (CG)**  
**B.Sc. III 2019-20**  
**SYLLABUS AND MARKING SCHEME**  
**2019-20 SEMESTER**

Paper No.	Title of the Paper	Marks Allotted in Theory/Practical	
		Max.	Min.
I	PROBLEMS OF WAR AND PEACE	50	17
II	MODERN WARFARE	50	17
III	Practical	50	17
	Total	150	51

Signature-

H.O.D.

Representative from Industry

External Subject Experts- 1.

2.

3.

Student Member-

Departmental members – 1.

2.

3.

Principal

Govt. N.P.G. College of Science,

Raipur (C.G.)

# DEFENCE- STUDIES B.Sc. - I

## PAPER- I

### INDIAN MILITARY HISTORY

**M.M. 50**

1 izR;sd iz“u i= rhu [kaM“ A B C esa foÖkfr g“xkA [kaM A cgqfodYih; @oLrqfu'B iz“u“a dk ¼Multiple Choice /Objective Question ) [kaM B yÄqmRrjh; iz“u“a dk (Short Answer Question) [kaM C nhÄZ mRrjh; ( Long Answer Question)g“xkA

2 IÖh [kaM“ esa izR;sd ÄdkÄ Is iz“u g“axs A [kaM A esa d“Ä Öh Internal Choice ugÈ g“xh [kaM B v©j C dç izR;sd iz“u esa Internal Choice nh tkosxhA

3 iz“u i= esa dqy vad“ ,oa ikB~;dze esa mYysf[kr ÄdkÄ dç vkèkkj ij izR;sd [kaM esa vad“a dk forj.k fuEukuqlkj g“axkA

dqy vad	dqy ;qfuV	cgqfodYih;@ oLrqfu'B iz“u“a ij	yÄqmRrjh; iz“u“a ij vad	nhÄZ mRrjh; iz“u“a ij vad
50	5	10 x 1= 10	5 x3 = 15	5 x5= 25

IÖh [kaM“ A B C esa izR;sd ;qfuV Is iz“u iqNk tkoasxk A

UNIT - 1            1.        The definition and scope of Defence Studies and its relationship with Other subjects.

2.        Art of war Epic and Puranic period.

3.        Comparative study of Indo-Greek art of war with special reference to the battle of Hudaspus 326 B.C.

4.        Mauryan Military system and art of war.

UNIT - 2            1.        Kautalya's Philosophy of war.

2.        Gupta's military system and art of war.

3.        Military system of Harshvardhan.

4.        Decline of Chariots and Importance of Elephant and Cavalry.

UNIT - 3            1.        Mughal military system.

2.        Rajput and Turk pattern of warfare with special of reference to Battle of Somnath and Battle of Tarain up to 12th century A.D.

3.        Causes of the fall of Rajput Military system.

4.        Army organization during Sultanate period.

5.        Battle of Panipat 1526 A.D. and Battle of Haldighati 1576 A.D.

UNIT - 4            1.        Maratha Military system.

2.        Warfare of Shivaji.

3.        Battle of Assai 1803 A.D.

4.        Sikh Military system.

5.        Battle of Sobraon 1846 A.D.

Unit - 5            1.        1857 Liberation Movement.

2.        Reorganization of India Army under the, Crown.

3.        Nationalization of, Indian Army after independence.

4.        Military reforms of Lord Kitchner's

READING LIST :

- |  |   |               |
|--|---|---------------|
| 1.        Military System of Ancient India   | : | B.K. Majumdar |
| 2.        Generalship of Alexander the Great | : | J.F.C. Fuller |
| 3.        Kautilya Arthashastra              | : | K.P. Kanbley  |
| 4.        Military History of India          | : | J.N. Sarkar   |

**PAPER- II**  
**DEFENCE MACHANISM OF THE MODERN STATE**  
**M.M.50**

1 izR;sd iz“u i= rhu [kaM“ A B C esa foÖkftr g“xkA [kaM A cgqfodYih; @oLrqfu'B iz“u“a dk ¼Multiple Choice /Objective Question ) [kaM B yÄqmrRjh; iz“u“a dk (Short Answer Question) [kaM C nhÄZ mRrjh; ( Long Answer Question)g“xkA

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dqy vad	dqy ;qfuV	cgqfodYih;@ oLrqfu'B iz“u“a ij	yÄqmrRjh; iz“u“a ij vad	nhÄZ mRrjh; iz“u“a ij vad
50	5	10 x 1= 10	5 x3 = 15	5 x5= 25

IÖh [kaM“ A B C esa izR;sd ;qfuV Is iz“u iqNk tkoasxk A.

- UNIT - 1
1. Evolution of National defence policy.
  2. Inter dependence of Foreign, Defence and Economics policies.
  3. Higher defence organization of U.S.A., U.K. and RUSSIA.
  4. Higher defence organization of China, Pakistan and NATO.
- UNIT - 2
1. Higher defence organization in India
  2. Power of President and relation to Armed forces.
  3. Parliament and the Armed forces.
  4. Defence (Political affair) Committee of the cabinet. Its Composition, method of working during war and peace.
  5. National Defence Council and its Valiant.
- UNIT - 3
1. Organization of Ministry of Defence.
  2. Organization of Army Head Quarter.
  3. Organization of Naval Head Quarter.
  4. Organization of Air Head Quarter.
- UNIT - 4
1. Organization and role of Para-military forces - B.S.F., I.T.B.P., C.I.S.F. etc.
  2. Organization and role of Intelligence Agencies- RAW, CBI, CID, IB etc.
  3. Military Intelligence.
  4. Role of N.C.C. in preparing youth for Defence services.
- Unit - 5
1. Organization of Civil- defence.
  2. Importance and role of civil defence during war and peace.
  3. Air- Raid signal and precaution before and after bombardment.
  4. The Role of Armed force assistance to civil Authorities.

**READING LIST :**

1. Indian Army, A Sketch of its History & Organization : E.H.E. Choen
2. Defence Organization in India : Venkateshwarm

## **PRACTICAL**

There shall be practical examination of 3 hours duration and carrying 50 marks. The distribution of marks shall be as follows -

- |    |                                |   |           |
|----|--------------------------------|---|-----------|
| 1. | Exercises based on Map reading | : | 20 Marks  |
| 2. | Exercises based on models      | : | 10 Marks  |
| 3. | Sessional Work and Record      | : | 10 Marks  |
| 4. | Viva-voce                      | : | 10 Marks, |

### **PART-A**

#### **ELEMENTARY MAP READING**

1. Maps- Definition, type, Marginal Information.
2. Conventional signs- Military and Geographical.
3. Direction and cardinal points.
4. Types of North, Angle of Convergence.
5. Study of Liquid compass, its parts, various tactical uses and preparation of night navigation chart.
6. Service Protractor and its uses.
7. To find North by Compass, Watch, Sun, Stars, etc.
8. Bearing and Interconversion of bearing.
9. Setting of Map.
10. Grid System.

### **PART-B**

#### **RECOGNITION & ELEMENTARY STUDY OF FOLLOWING MODELS**

1. Equivalent Rank and Badges of Indian Army, Navy, and Air Force.
2. Famous Armored vehicles used in war.
3. Weapons used in Infantry.
4. Various Ships of Indian Navy.
5. Famous Air-Crafts used by Air-Force.



## DEFENCE- STUDIES B.Sc. - II

### PAPER- I

### WESTERN MILITARY HISTORY

MM - 50

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dqy vad	dqy ;qfuV	cgqfodYih;@ oLrqfu'B iz“u“a ij	yÄqmrRjh; iz“u“a ij vad	nhÄZ mRrjh; iz“u“a ij vad
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IÖh [kaM“ A B C esa izR;sd ;qfuV ls iz“u iqNk tkoasxk A

#### UNIT - 1 **Age of Velour**

1. Military system of Greek; Tactics of Phalanx.
2. Alexander the Great and his reforms.
3. Military system of Roman; Tactics of Legion, Julius Caesar.
4. Battle of Arbela 311 B.C.
5. Battle of Cannae 216 B.C.

#### UNIT - 2 **Age of Chivalry**

1. Emergence and decline of cavalry.
2. Battle of Adrianopole 378 A.D.
3. Battle of Hasting 1066 A.D.
4. Cavalry tactics of Zenghiz Khan.
5. Battle of Cracee 1346 A.D.

#### UNIT - 3 **Age of Gun Powder & Steam**

1. Impact of Gun Powder in war.
2. Contribution of Gustavas Adolphus & Fredrik the Great.
3. The Revolution in tactics - Causes of war American Independence 1775-83.
4. The Revolution in tactics - Causes of French Revolution.
5. Napoleonic art of warfare and his military reforms.

#### UNIT - 4 **World War - I & II**

1. First World War - Causes of W.W., Policies and Strategic plans of the powers.
2. Role of Air Force with reference to theory of Douhet.
3. Role of Navy with reference to theory of Mahan.
4. Second World War - Causes of W.W., Objective and Strategy of Allied and Axis Force.
5. Personalities of Rommel.

## Unit - 5 World War - II

1. Armament and Mechanical warfare with reference to the theories of J.F.C. Fuller and Liddell Hart.
2. Role of air power, weapons, doctrines, tactics.
3. Role of naval power, weapons, doctrines, tactics.
4. Tactics of Second World War.
5. Advent of Nuclear weapons and their impact on warfare.

### SELECTED READING :

1. Nuclear war and Nuclear peace : Y. Harkabi
2. Makers of Modern strategy : E.M. Earl

## PAPER- II THEORY AND PRACTICE OF WAR

### MM - 50

4 izR;sd iz“u i= rhu [kaM“ A B C esa foÖkfr g“xkA [kaM A cgqfodYih; @oLrqfu'B iz“u“a dk ¼Multiple Choice /Objective Question ) [kaM B yÄqmRrjh; iz“u“a dk (Short Answer Question) [kaM C nhÄZ mRrjh; ( Long Answer Question)g“xkA

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dqy vad	dqy ;qfuV	cgqfodYih;@ oLrqfu'B iz“u“a ij	yÄqmRrjh; iz“u“a ij vad	nhÄZ mRrjh; iz“u“a ij vad
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IÖh [kaM“ A B C esa izR;sd ;qfuV Is iz“u iqNk tkoasxk A

- UNIT - 1
1. SunTzu- Founder of Military Theory and philosophy.
  2. Clausewitz - War and its relationship with politics.
  3. Macheavelli - Renaissance of Art of War.
  4. Jomini - Concept of mass armies.

UNIT - 2

1. Churchill.

2. Mahatma Gandhi.
3. Kautilya.
4. A.Hitler.

- UNIT - 3
1. Mao Tse Tung.
  2. Che Guevara.
  3. Economic War.
  4. Economic and Psychological war.
  5. Collective Security.

- UNIT - 4
1. Indo - China War - 1962 Causes of war, political & military lesson.
  2. Indo - Pak War - 1965 Causes of war, political & military lesson.
  3. Indo - Pak War - 1971 Causes of war, political & military lesson.
  4. Kargil Conflict 1999.

- Unit - 5
1. Internal & External threats of National Security.
  2. Insurgency and Counter-Insurgency.
  3. Terrorism- Problem and Solution.
  4. Naxalism- Problem and Solution.

### REFERENCE BOOKS :

- |    |                             |   |                      |
|----|-----------------------------|---|----------------------|
| 1. | Theory and Practice of war  | : | M. Howard            |
| 2. | Clausewitz                  | : | M. Howard            |
| 3. | Guerilla warfare            | : | Mao Tse Tung         |
| 4. | The Lightning War TaditYudh | : | D.K. Palit           |
| 5. | War of 1971                 | : | Mankekar             |
| 6. | आक्षातः अन्तर्घटन चक्रवर्ती | : | मैत्रेय. अ. आशुतोष   |
| 7. | अन्तर्घटन चक्रवर्ती         | : | अखिलेश्वर चतुर्वर्ती |

## PRACTICAL

There shall be practical examination of 3.5 hours duration and carrying 50 marks. The distribution of marks shall be as follows -

- |    |                                |   |           |
|----|--------------------------------|---|-----------|
| 1. | Exercises based on Map reading | : | 15 Marks  |
| 2. | T.W.E.S.T.                     | : | 15 Marks  |
| 3. | Sessional Work                 | : | 10 Marks  |
| 4. | Viva-voce                      | : | 10 Marks, |

### PART-A MAP READING

1. Scales - Definition, method of expressing, contraction of simple, time, diagonal and comparative.
2. Relief and its representation.
3. Slopes and Gradient.
4. Visibility and inter- visibility by Gradient, proportionate and section method.
5. Re-section and inter-section.
6. Grid system-Map reference, Index to map, Four figure and Six figure.

### PART-B

7. Organization and equipment of infantry Platoon and Section.
8. Section Formation.
9. Indication of Target by various methods.
10. Fire control order.
11. Patrols.
12. Battle Procedures (ROFT)
13. Verbal Order.
14. Message- Writing.

### BOOK RECOMMENDED :

- |    |                       |   |                      |
|----|-----------------------|---|----------------------|
| 1. | Manual of Map Reading | : | London Her.          |
| w. | सिद्धार्थ चक्रवर्ती   | : | मैत्रेय. अ. आशुतोष   |
| x. | अ. आशुतोष. अ. आशुतोष  | : | अखिलेश्वर चतुर्वर्ती |

# DEFENCE- STUDIES B.Sc. - III

## PAPER- I

### PROBLEMS OF WAR AND PEACE

MM - 50

1 izR;sd iz“u i= rhu [kaM“ A B C esa foÖkfr g“xkA [kaM A cgqfodYih; @oLrqfu'B iz“u“a dk ¼Multiple Choice /Objective Question ) [kaM B yÄqmrRjh; iz“u“a dk (Short Answer Question) [kaM C nhÄZ mRrjh; ( Long Answer Question)g“xkA

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dqy vad	dqy ;qfuV	cgqfodYih;@ oLrqfu'B iz“u“a ij	yÄqmrRjh; iz“u“a ij vad	nhÄZ mRrjh; iz“u“a ij vad
50	5	10 x 1= 10	5 x3 = 15	5 x5= 25

IÖh [kaM“ A B C esa izR;sd ;qfuV Is iz“u iqNk tkoasxk A

#### UNIT - 1 U.N.O.AND WORLD PEACE

1. Organs and its role
2. Main specialized agencies of U.N.O.
3. Role of U.N.O. in world peace.
4. Peace keeping force of the U.N.O.
5. Veto power and Security Council.

#### UNIT - 2 WAR AND PEACE

1. Settlement of International Disputes.
2. Diplomatic agents and Consuls.
3. War Crimes.
4. Neutrality.
5. Intervention.

#### UNIT - 3 HUMANITARIAN AND REFUGEE LAW

1. Basic concepts and development of Humanitarian law.
2. UN General Assembly declaration of human right on Dec. 10, 1948.
3. Protection of Victims and defenceless in armed conflict. POWs, wounded and civilians in Armed Forces.
4. Central Human Right Commission : Organization and Function.
5. State Human Right Commission : Organization and Function.

#### UNIT - 4 REFUGEE LAW

1. Meaning, concept and causes of Refugee.
2. Refugee and IDPs.
3. Refugee law in India.
4. Refugee Problem in South Asia.
5. Role of International Committee of Cross and UNO in Refugee Problems.

#### UNIT - 5 LAWS OF WAR

1. Law of Land War.

2. Law of Sea War.
3. Law of Air War.
4. Space Law.
5. The International Court of Justice.

#### SELECTED READINGS :

1. Maunceclark, J : Reading in the Economics of War.
2. International Security : Modern political Science series.
3. Rajani Kothari : World order.
4. Openhem, I : Use of Force by state and International law.

### PAPER- II MODERN WARFARE

MM - 50

1 izR;sd iz“u i= rhu [kaM“ A B C esa foÖkfr g“xkA [kaM A cgqfodYih; @oLrqfu'B iz“u“a dk ¼Multiple Choice /Objective Question ) [kaM B yÄqmRrjh; iz“u“a dk (Short Answer Question) [kaM C nhÄZ mRrjh; ( Long Answer Question)g“xkA

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3 iz“u i= esa dqy vad“ ,oa ikB~;dze esa mYysf[kr ÄdkÄ dØ vkèkkj ij izR;sd [kaM esa vad“a dk forj.k fuEukuqlkj g“axkA

dqy vad	dqy ;qfuV	cgqfodYih; @ oLrqfu'B iz“u“a ij	yÄqmRrjh; iz“u“a ij vad	nhÄZ mRrjh; iz“u“a ij vad
50	5	10 x 1= 10	5 x3 = 15	5 x5= 25

IOh [kaM“ A B C esa izR;sd ;qfuV ls iz“u iqNk tkoasxk A

UNIT - 1 1. Development of Nuclear weapons.

2. Effects of Nuclear Explosion.
3. Spread of Nuclear Weapons.
4. Missile and their characteristics.
5. Type of Missiles.

UNIT - 2 1. Trends in Science and Technology and their impact on war.

2. Role of Research and Development.
3. Developments of Weapons and their impact on tactics.
4. Command, Control, Communication and Intelligence (C<sup>3</sup>I)in Modern Warfare.

5. Elements of National Power.

UNIT - 3 1. Military Satellites.

2. Explosive Bombs.
3. War Gases.
4. Micro Organs : as a Weapons.
5. Smart Weapons.

UNIT - 4 1. Rocket Technology and India.

2. Missile Technology and India.
3. Nuclear Technology and India.
4. Atomic Minerals and India.
5. Space Technology and India.

Unit - 5 1. New word order - Political, Social and Economical.

2. Alliance and Regional co-operation.
3. Mobilization of resources for war.

4. War time economics.
5. New trends.

#### REFERENCE BOOKS :

- |    |                   |   |                               |
|----|-------------------|---|-------------------------------|
| 1. | Halailan Morton   | : | Cotemporary Military strategy |
| 2. | Brodue, Y.        | : | Strategy in the missile Age.  |
| 3. | Markabi, Y.       | : | Nuclear war and Nuclear peace |
| 4. | Osanka, F.M.      | : | Modern Guerilla warfare       |
| 5. | Gerald, J.        | : | Defence Psychology            |
| 6. | Know Kalus        | : | Science and Defence           |
| 7. | Pandey Girishkant | : | Yudhmein Vigyanaven Takaniki  |

### PRACTICAL

There shall be practical examination of 3.5 hours duration and carrying 50 marks. The division of marks shall be as follows -

- |    |                                  |   |          |
|----|----------------------------------|---|----------|
| 1. | Plain Table Survey               | : | 15 Marks |
| 2. | Experimental Military Psychology | : | 15 Marks |
| 3. | Group Discussion & Lecturing     | : | 05 Marks |
| 4. | Viva-voce                        | : | 05 Marks |
| 5. | Sessional Work & Record          | : | 10 Marks |

#### Section - A

Plain table Survey by inter section methods, (At least ten exercises in a session.)

#### Section - B

Military - Psychology Experiment :

1. Muller - Layer-Illusion Test.
2. Koh's Block Design Test.
3. Allexander Pass Along Test.

#### Section - C

Group Discussion and Lectures based on current topic on any international & national Problems.