

The University of Burdwan
Syllabus for B.A. (General :1+1+1 Pattern)
in
Defence Studies
(with effect from 2008-2009 onwards)

PART-I

Paper – I : War

Full Marks – 100

Part A Concepts and Principles

- (i) Definition and Objectives of War
- (ii) Types of War – Hot War, Cold War, Psychological War
- (iii) Warfare: distinction between war and invasion: Land war (Jungle, desert and mountain); naval war (aggressive, protective and supporting)
- (iv) Principles of War, and the Rules relating to the principles of War
- (v) Concept of total war.
- (vi) Immunity of non-combatants.

Part B Military History of India

- (i) Indo-China War, 1962
- (ii) Indo-Pak War, 1965
- (iii) Indo-Pak War, 1971
- (iv) Indo-Pak Conflict, 2001

Part C International and Regional War

- (i) First World War; (ii) Second World War; and (iii) Gulf War-definition; causes; strategy and tactics; evaluation.

PART-II

Paper II: India's National Security Issues

Full Marks: 100

Part B Military Geography

- (i) Strategic location of geostrategy and geopolitics
- (ii) Size, shape and population
- (iii) Physical geography and its impact on national security planning.
- (iv) Frontiers of India – problems of security and their suitability to different types of war.
- (v) Sea coast of India – characteristics, importance; ports; military and civil defence and logistic problems.

Part C Economic and Industrial Potentials of India

- (i) Industries and their potentials; defence, civil but convertible to defence (key-industries); export-oriented, and those essential for domestic consumption only.
- (ii) Transport and communications – scientific and technological developments and the extent of their dependence on others.

Part D National Policy

- (i) National Moral and solidarity
- (ii) National defence policy
- (iii) Policy and methods of public information, publicity and propaganda
- (iv) Brief outline of foreign policy and foreign relations
- (v) Organization of the Ministry of defence, Defence Committee; Organization and Administration of defence forces – army, navy and air (in brief)

Part E War, Military History, Arms and Armaments

- (i) Organization of the armed forces; weapons, battle dress, patterns of war, and the tactics of war during the following period: Pala period; Mughal period (Mansabdari system only); Maratha Period (Shibaji's period only); and Sikh history (Ranjit Singh only).

- (ii) Decisive battles; (a) Three battles of Panipath; (b) Battle of Chilianwala; and (c) Battle of Plassey.

Part F Nuclear War

- (i) Fusion Bomb and Fission Bomb – possibilities, dangers and repercussions
- (ii) Biological and chemical warfare.

Part G Some Modern Weapons and Armaments

- (i) Theory of Small arms
- (ii) Characteristics, different parts and functioning and mechanisms of the following: (a) Weapons: 303 Rifle, SLR, Granade (no. 36 HE only) , 2” Mortar, Nuclear Bombs, AK-47M AK-56.
- (iii) Armaments: Tanks; Vijanyanta, Patton, Chafts, Aircrafts; glider, helicopter, transport, fighter bomber; naval crafts: sub-marine, destroyer; cruiser, Battle sloops; air-craft carrier, MIG Missile Launchers.

PART-III

Practical Full Marks = 100

Military Geography: 40 Marks

- (i) Introduction to Maps – civil and military
- (ii) Preparation of index to sheet.
- (iii) Determination and construction of different types of scales – Liner , R.F.
- (iv) Conventional Sign – Civil and military
- (v) Map Reference: (a) latitude and longitude (b) Four and six figure reference. (c) Use of Romer.
- (vi) Compass and its uses.
- (vii) Service protector and its uses
- (viii) Bearing and conversion of bearing
- (ix) Filed sketching
- (x) Eye and memory sketching

- (xi) Location and identification of Object from ground to Map and Vice-Versa
- (xii) 308 Rifle, SLR, LMG – and its representations.
- (xiii) Contour lines and their uses.
- (xiv) Determination of gradient
- (xv) Determination of Indivisibility: contour; gradient and proportion of methods
- (xvi) Weather: climate preparation of weather chart.

2. Military History

- i. Preparation of different stages of battle on a sand model, or to draw sketches of the same on plain paper; (a) The Battle of Chilianwals; (b) The Battle of Plassey; and (c) Three battle of Panipath.

3. Weapons and Armaments: 20 Marks

i) Students will be required to draw and explain the important stages of mechanisms of the following weapons: 3030 Rifle, SLR, LMG, SMC, H.E. 3.6" Granade, 2" Mortar.

[N.B: Students will be required to recognize different parts and explain their functions on given chart or model]

4. Laboratory Note Books and Viva-Voce: 10+10 = 20 Marks

[N.B: Students will be required to maintain records of all works done in connection with Military Geography and Military History]

Paper-IV (Theoretical)

India's Defence, Community, and Leadership (F.M: 65)

Part A: Security of India

- i. Concept of arms control and Disarmament – objectives; conventional and nuclear disarmament; world disarmament effort of UNO;
- ii. Military Pacts: NATO, Warsaw; CENTO, SEATO, Tashkent Treaty; Panchsheel;
- iii. Non Alignment Movement (NAM)

- iv. SAARC
- v. Internal Security problems of India – Socio-economic, political, scientific and technological, and military and allied aspects;
- vi. Indian Ocean and Indian islands therein as a factor of Indian National Security.

Part B Foreign Policy; India's foreign policy with her neighbours and big powers (in brief outline)

Part C Human Resource Development

- i. Concept; objectives; rationale
- ii. Processes and climate variables – organizational climate
- iii. Values/Code of ethics: value education; ethics, attitudes and its major components.
- iv. Emotion; social Perception; motivation and its types.
- v. Personality and its types, and development; habits and its kinds.
- vi. Decision making

Part D Duties of Citizens, Morale and Leadership

- i. Elements of good citizens:
- ii. Fundamental duties of Indian Citizens
- iii. Rights
- iv. Management and Administration
- v. Traits of Morale
- vi. Principles, Traits and Types of leadership.

Part E Employment Traits and Interview

- i. Types of test
- ii. General Aptitude test Battery
- iii. Career Maturity Inventory
- iv. Thematic Appreciation test.
- v. Kinds of Interview

Part F Social Service and Adventure training

Aims, objectives and types.

Part G Customs of Services: Approach, Dress, Etiquette, and military courtesy.

Practical = 35 Marks (Lab Note Book = 5, Viva-voce = 5, Expt = 25)

- i. Field Engineering: uses of digging tools, knots and lashes
- ii. Field Defence: Effectiveness of weapons: camouflage concealment; charts and maps on trench pitches, pits and obstacles.
- iii. Mine laying and mine lifting
- iv. Obstacle Training
- v. Map reading: conventional signs; preparation of night march
- vi. Weapons: Characteristics and 40 MM gun, 40 mm L-60 and L-70 mm.

Reference:

1. Lt. Co. M. G. Abhysankar, *Defence – Principles and Organization*.
 2. Major Shiam Dal & P. K. Mukherjee, *Text Book of Military Science*, Vol. I & II
 3. Major D.K. Plait, *The Essentials of Military Knowledge*.
 4. V.K.R.V. Rao, *War in Indian Economy*.
 5. A. Shah, *India's Defence and Foreign Policy*
 6. J.N. Sarkar, *Military History of India*.
 7. Any one of the following:
Capt. B.B. Chatterjee, *A Complete Textbook for N.C.C. Cadets*.
- Or
- Capt. K.S. Chatterjee *Handbook of Military Science*.
 8. V. Longer, *Youth in step* (Lancer International)
 9. Yengeny Dologopolov, *The Army and the Revolutionary Transformation of Society* (Moscow: Progress Publishers)
 10. Martin Van Creveld, *The Training of Officers: From Military Professionalism to Irrelevance* (New York: Free Press, New York), 1990.
 11. John Simpson, *From the House of War* (London: Arrow Books, 1991).
 12. Akhtar Majee, *No Farewell to Arms: Strategic issues in International Relations* (New Delhi: Lancer Publishers Pvt. Ltd., 1991)
 13. Tony Devereaux, *Messenger Gods of Battle: Raio, Radar, Sonar: The Story of Electronics in War* (Bvassey's, U.K).

14. *Cadet Varta* (Published by Directorate of NCC, West Bengal & Sikkim) – current Edition.
15. Cadets Handbook (Pub: by DG, NCC, New Delhi, 1980)
16. A. Basu and A. Kohli , *Community conflicts and the State in India*. (Cambridge: Cambridge University Press, 2001)
17. Dolly Arora, *Internal Security in India*.
18. Major K.A. John Major K.A. John, *Cadets' Diary* (Chennai: Cadet Centre, Chennai).
19. Major R.C. Misra, *A Hand Book of NCC* (Kanti Prakashini, U.P).
20. C. Northcote Parkinson & MK. Rustogi, *Understanding Management* (New Delhi: Vision Books, New Delhi).