

DEPARTMENT OF DEFENCE AND STRATEGIC STUDIES

PUNJABI UNIVERSITY, PATIALA

Syllabus for Ph.D. Entrance Test for Session 2023-24

Section-A

(Research Methodology)

1. Research Methodology: meaning, objectives, characteristics, features of research and its significance in social sciences, Reasoning Process, Types of Research.
2. Methods of Explanation: Inductive and Deductive approaches
3. Objectivity and Value Neutrality
4. Approaches and Scientific methods of research in social sciences.
5. Research Design: types and formulation.
6. Research Process & Planning: Process Models, Identification of a Research Problem, **Statement of Research problem, Review of Literature, Hypothesis, Data Collection**
7. Sampling: concept, principles and types of sampling.
8. Data collection: observation, questionnaire, schedule, interview and use of secondary sources of data.
9. Data Analysis: Data Distribution, Data Tabulation, Techniques of Data Analysis, Statistical Techniques, Testing of Hypothesis, Data Representation, Interpretation processing.
10. Use of Information Technology and Computer Applications in research.
11. Report Writing: Principles of Report Writing, Research Report Format, Style & **Methods of Report Writing, Documentation, Usage of Computers in Research**
12. Research ethics and plagiarism

Section-B

(Subject)

Note: Paper setter(s) shall give 10 percent weightage to each section in the Question Paper.

1. CONCEPTUAL ASPECTS OF WAR

- I. Evolution of Warfare: Animal Warfare, Primitive Warfare, Historical Warfare and Modern Warfare.
- II. Classification of War: Conventional War, Guerrilla War, Limited War, Low-intensity Conflict, Hybrid War.
- III. Theories of Nuclear Deterrence.
- IV. Terrorism, Counter-terrorism, Cross-border terrorism, State-sponsored terrorism, State Terrorism, Global /international terrorism

2. STRATEGIC THOUGHT

- I. Philosophy of War: Kautilaya and Sun Tzu
- II. War as an instrument of policy: Karl von Clausewitz
- III. Geopolitics: Mackinder, Haushofer
- IV. Sea Power: AT Mahan
- V. Guerrilla warfare: Mao Tse Tung

3. INTERNATIONAL RELATIONS

- I. Nation, State and Nation-State system.
- II. Elements of National Power.
- III. National Interest; Balance of Power; Collective Security; Balance or Terror.
- IV. Military Alliances and Pacts, Peace Treaties, Defence Cooperation, Strategic Partnership and
- V. Security Dialogue.
- VI. Determinants of India's Foreign Policy. vi. India's Relations with its neighbours.

4. CONCEPTS OF SECURITY

- I. Global Security; Regional Security; National Security; Human Security; Environment Security;
- II. Determinants of National Security.
- III. Defence and Security Policies: Formulation and linkages.
- IV. International Security Environment.

5. **DIMENSIONS OF INDIAN SECURITY:**

- I. India's Security Problems as result of partition of 1947:
- II. Geo-political effects of partition.
- III. Jammu & Kashmir Problem ii. India's Security problems related to Pakistan, China, Bangladesh and Nepal.
- IV. India's Internal Security problems: Insurgency in North Eastern States, Militancy in Jammu & Kashmir and Left-Wing Extremism. iv. India's maritime security.
- V. India's Maritime doctrine, strategy and capabilities.
- VI. India's Nuclear Policy: Nuclear Doctrine and Capability.
- VII. Disaster Management in India. viii. Civil Military Relations in India

6. **DEFENCE ECONOMICS**

- I. Effects of War on National Economy.
- II. Determinants of Defence Expenditure: Threat perceptions, capabilities and policies. iii. Assessment of War Potential (Resources of War) of a nation.
- III. Mobilization of Resources for war with reference to Physical and Fiscal Mobilization.
- V. Defence Planning, Programming and Budgeting. vi. Economic Constraints in Defence Management.
- VI. Defence vs Development in Indian context viii. India's Policy on Defence Planning and Production.

7. **SCIENCE, TECHNOLOGY AND NATIONAL SECURITY**

- I. Impact of Science and Technology on Society and warfare.
- II. Transfer of Technology: Political, military and economic impact of transfer of Technology.
- III. Electronic Warfare, Information warfare, Cyber warfare.
- IV. Revolution in Military Affairs (RMA).
- V. Defence research and development in India. vi. India's space programme.
- VI. India's Nuclear Programme.
- VII. Ocean Technology in India.

8. **GLOBAL SECURITY CONCERNS**

- I. End of cold war and emergence of new world order.
- II. Non-traditional Challenges to Security: Environmental Issues: Climate Change and Global Warming, Industrial Pollution, Deforestation.
- III. Manifestations of Terrorism: Money Laundering, Narco-trafficking, and small arms proliferation.
- IV. Illegal Human Migration: Internally Displaced People (IDP) and Cross-border human trafficking.
- V. Emergence of Non-State Actors: Daesh (ISIS).
- VI. Energy Security and Water Security

9. **MILITARY PSYCHOLOGY**

- I. Psychological Warfare-Propaganda, Rumor and Indoctrination.
- II. War Neurosis: Fear and Panic in War.
- III. Emotional problems and adjustment of armed forces personnel during war and peace.
- IV. Military Leadership.
- V. Effective Organization of Armed Forces: Discipline, Morale, Motivation and Man Management

10. **CONFLICT RESOLUTION AND PEACE BUILDING**

- I. Conflict Resolution Approaches.
- II. Conflict Management: Pacific and Coercive methods to settle International Disputes.
- III. Confidence Building Measures: Concept, Types and Effectiveness
- IV. Role of Inter-Governmental Organisations & Non-Governmental Organisations in Conflict Resolution.
- V. Role of United Nations in international peace and security