

Department of Defence and Strategic Studies

Syllabus for PhD Entrance Test 2021

Paper: 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

DEPARTMENT OF DEFENCE AND STRATEGIC STUDIES
PUNJABI UNIVERSITY, PATIALA
(Established under Punjab Act No.35 of 1961)

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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: Kautilya 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 of Terror.
- iv. Military Alliances and Pacts, Peace Treaties, Defence Cooperation, Strategic Partnership and Security Dialogue.
- v. 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:
 - a. Geo-political effects
 - b. Jammu & Kashmir Problem
- ii. India's Security problems related to Pakistan, China, Bangladesh and Nepal.
- iii. 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
- iv. Mobilization of Resources for war with reference to Physical and Fiscal Mobilization.
- v. Defence Planning, Programming and Budgeting.
- vi. Economic Constraints in Defence Management.
- vii. 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.
- vii. India's Nuclear Programme.
- viii. 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 Conflict Resolution.
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