Syllabus of Paper I

Ph.D. Admission Test (PAT) of Patna University consists of two papers:

A. Paper – I : General and Research Aptitude Test.

B. Paper – II : Subject Specific Test. Subjective type in the subject concerned based on syllabus (excluding elective papers) of the Post-Graduate courses of the Patna University.

Paper – I : General Aptitude and Research Aptitude Test

All questions with multiple choices, each correct answer carries 2 marks.

Total Marks : 100

Total Questions : 50

No negative marking system.

Duration of Entrance Exam: 1 Hour

The paper consists of 4 Parts. The distribution of marks and number of questions are mentioned in the table below:-

Topic	No. of questions	Marks	Syllabus/Level
2. Research Aptitude	10	20	Mentioned below
II. Language Aptitude	10	20	High School Level
III. Logical Reasoning	05	10	High School Level
IV. Numerical Ability	05	10	High School Level
V. Data Interpretation	05	10	Mentioned below
VI. Environment and Sustainability	10	20	Mentioned below
VII. Computer and Information & Communication Technology (ICT) Awareness	05	10	Mentioned below

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I. Research Aptitude

Meaning, aims, nature and scope of research

Prerequisites of Research

Types of research: Fundamental or Pure research, Applied research

Research Problem: Meaning of research problem, Sources of research problem,

Characteristics of a good research problem

Methods of research

Research proposal or synopsis

Ethics in Research

v. Data Interpretation

Qualitative and Quantitative Data

Mapping of data: Representation and Interpretation of graphs

vi. Environment and Sustainability

Sources of Air, Water and Soil Pollutions and their Mitigation, Noise Pollution

Global Warming, Ozone depletion and Acid rain

Current environmental issues and movements in India: Chipko

Movement, Silent valley, Narmada Dam, Tehri Dam, Almetti Dam etc.

Global Environmental Movements: Biodiversity Conservation and Agenda 21,

Paris Convention, Montreal Protocol etc.

vii. Computer and Information & Communication Technology (ICT) Awareness

General Abbreviations and Terminology of Computers and ICT

Meaning, Advantages, Uses and Risks of Digitalization Basics of Internets.

Sd./-
Controller of Examinations
Patna University, Patna

Sd./-
Vice Chancellor
Patna University, Patna

Memo No. 1153   Dated 04/09/2019

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