

Ph.D. Admission Test (PAT) of Patna University scheduled to be held on 24th Feb 2018 consists of two papers:

- 1) Paper-I: General and Research Aptitude Test.
- 2) Paper –II: Subject Specific Test

Paper-I : General Aptitude and Research Aptitude Test

All questions with multiple choices, each correct answer carries I Mark.

Total Marks: 100

Total Questions: 100

No negative marking system.

Duration & Timing of Entrance Exam: 1 Hour

The paper consists of 4 Parts

- I. Research Aptitude
- II. Language Aptitude
- III. Logical Reasoning
- IV. Numerical Ability
- V. Data Interpretation
- VI. Environment and Sustainability
- VII. Computer and Information & Communication Technology (ICT) Awareness

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

II. **Language Aptitude** – High School Level

III. **Logical Reasoning** – High School Level

IV. **Numerical Ability** - High School Level

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