

Schedule of Ph.D. Coursework Exam

Schedule of exams:

Date of exam	Paper	Subject	Duration	Time	Total Marks	Pass Marks
18/09/2024	Paper-I	Research Methodology- I	3 hours	10:00 am to 1:00 pm	100	50
19/09/2024	Paper-II	Research Methodology-II	3 hours	10:00 am to 1:00 pm	100	50

Note:

1. All candidates are instructed to bring their registration cards while appearing in the exams.

Venue of Exams:

The exam will be held at **University Center of Excellence in Research, Academic Block**, Baba Farid University of Health Sciences, Faridkot.

Format of exam:

The paper-I and Paper-II will be for 100 marks each. The format of the exam will be as follows:

- Section-A will comprise of 10 multiple choice questions of 2 marks each and it will be compulsory to attempt all questions.
- Section-B will comprise of 10 short answer questions of 3 marks each and it will be compulsory to attempt all questions.
- Section-C will comprise of 7 questions of 5 marks each. Candidates need to attempt only 6 questions.
- Section-D will comprise of 3 questions of 10 marks each. Candidates need to attempt only 2 questions.

Syllabus of Exams

Paper-I (Research Methodology-I)	Paper-II (Research Methodology-II)
<ul style="list-style-type: none"> • Introduction to Research methodology • Overview of Research and its types and components • Quantitative Research versus Qualitative research • Qualitative Research designs • Experimental Research Designs : True versus Quasi Experimental • Research Question and hypothesis/ Assumptions • Salient features of developing research proposal • Developing Conceptual Framework/models for research study • Samples and Sampling Techniques • Determining Sample Size • Techniques of data collection • Data Concepts: Types, Expressions, Presentation and Examples /Basic Statistics: Descriptive and inferential • Strategies for analysing data • Designing research Tools • Use of Statistical Packages for data analysis • Documenting the Review of Literature in Dissertation/thesis • Components of research writing • Writing style of thesis : example of a good thesis • Types and layouts of research reports • Writing a concept paper for research projects • Review and research articles designing and writing research report for publication • Technical problems in report/ thesis writing • Plagiarism and serious concerns • Research funding schemes • Applying for funding schemes • Evaluation of research report and technical errors in project proposal • Responsible conduct of Research and Publication 	<ul style="list-style-type: none"> • Introduction to Clinical Research • Overview of New Drug development • Tragedies in Clinical Research • Phases in clinical trials (I,II,III) • Scope and bottlenecks in clinical trials • Biostatistics in Clinical Trials • QA and QC in Clinical laboratories/drug manufacturing • Pharmaceutical Industry Frauds • Essential document in clinical trials • Role of Pharmacovigilance in clinical research/trials • Pharmacovigilance - Case Studies • IEC/IRB duties and responsibilities • Perspectives in Clinical Research • ICH guidelines (Good Clinical Practices) • Informed Consent/Patient rights • Filing of INDA and NDA and Documents required for INDA and NDA • Adverse drug reaction and monitoring, Reporting of adverse drug Reaction • Data management in clinical trials (I,II,III) • Intellectual Property Rights • Patent, copyrights, trademarks • Cross-sectional / Time-series • Case Control/Cohort Studies • Information retrieval in health sciences and search engines • Ethical consideration in health sciences research • Computer-Aided Design (CAD) • Quality Management and Accreditation • Ethics in Research and Publication • Conducting Clinical Trials in India • Entrepreneurship Development