Schedule of Ph.D. Coursework Exam

Schedule of exams:

Date of exam		Paper	Subject	Duration	Time	Total	Pass
						Marks	Marks
25 th	March,	Paper-I	Research	3 hours	10:00 am	100	50
2019			Methodology- I		to 1:00 pm		
26 th	March,	Paper-II	Research	3 hours	10:00 am	100	50
2019			Methodology-II		to 1:00 pm		

Note:

- 1. The exam is only for those candidates who have completed the research methodology workshops held in two phases *i.e.* 17 December, 2018 to 22 December 2018 (Phase-I), and 28 January, 2019 to 02 February, 2019 (Phase-II).
- 2. All candidates are instructed to bring their registration cards while appearing in the exams.

Venue of Exams:

The papers will 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)

- ➤ Introduction to Research methodology and Biostatistics
- 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
- Components of research writing
- Writing style of thesis : example of a good thesis
- > Types and layouts of research reports
- Review and research articles designing and writing research report for publication

Paper-II (Research Methodology-II)

- ➤ 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 Clinical trials
- ➤ IEC/IRB duties and responsibilities
- Perspectives in Clinical Research
- > ICH guidelines (Good Clinical Practices)

- ➤ 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
 - ➤ 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