

# JECRC UNIVERSITY, JAIPUR

## Syllabus for PhD Entrance Examination- 2018

As per the per UGC (Minimum Standards and Procedure for Award of M.Phil./ Ph.D. Degree) Regulations, 2016, the entrance test shall be of qualifying nature with qualifying marks as 50%. The paper shall consist of 100 objective type multiple choice questions.

1. **Paper-1: Research Methodology** , having 50% weightage and
2. **Paper-2: Research Aptitude in the Subject Specific** , having 50% weightage (Which covers Research Aptitude, covering the subject knowledge of the Subject Specific)

The syllabus for the **Paper-1** is as follows:

### **Research Methodology-Introduction**

Meaning of Research, Objectives of Research, Motivation in Research, Types of Research, Research Approaches, Significance of Research, Research Methods versus Methodology, Research and Scientific Method, Importance of Knowing How Research is Done, Research Process, Criteria of Good Research, Problems Encountered by Researchers in India

### **Research Design**

Meaning of Research Design, Need for Research Design, Features of a Good Design, Important Concepts Relating to Research Design, Different Research Designs, Basic Principles of Experimental Designs

### **Methods of Data Collection**

Collection of Primary Data, Observation Method, Interview Method, Collection of Data through Questionnaires, Collection of Data through Schedules, Difference between Questionnaires and Schedules, Some Other Methods of Data Collection, Collection of Secondary Data, Selection of Appropriate Method for Data Collection, Case Study Method

### **Testing of Hypotheses-I (Parametric or Standard Tests of Hypotheses)**

What is a Hypothesis?, Basic Concepts Concerning Testing of Hypotheses, Procedure for Hypothesis Testing, Flow Diagram for Hypothesis Testing, Measuring the Power of a Hypothesis Test, Tests of Hypotheses, Important Parametric Tests, Hypothesis Testing of Means, Hypothesis Testing for Differences between Means, Hypothesis Testing for Comparing Two Related Samples, Hypothesis Testing of Proportions, Hypothesis Testing for Difference between Proportions, Hypothesis Testing for Comparing a Variance to Some Hypothesized Population Variance, Testing the Equality of Variances of Two Normal Populations, Hypothesis Testing of Correlation Coefficients, Limitations of the Tests of Hypotheses

### Interpretation and Report Writing

Meaning of Interpretation, Why Interpretation?, Technique of Interpretation, Precaution in Interpretation, Significance of Report Writing, Different Steps in Writing Report, Layout of the Research Report, Types of Reports, Oral Presentation, Mechanics of Writing a Research Report, Precautions for Writing Research Reports

Kindly approve the same for the uploading on our official website.

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Signature

(Prof. Sanjay K. Sharma)

Associate Dean (Research)  
JECRC University, Jaipur

President

Approved.

Signature

/23/05/2018

Mr Beniwal.