

Rani Durgavati University, Jabalpur
Department of Mathematics & Computer Science

Entrance examination syllabus for Ph.D./ M.Phil. Mathematics
2018 onwards

Maximum marks = 100

Instructions to Paper setter/ Examiner :

- (i) Entrance test question paper will have two sections A & B, each consisting of 50 objective type compulsory questions. In all there will be total 100 questions.
- (ii) Section-A will represent "Research Methodology", whereas Section-B will represent "Mathematics".
- (iii) Each question will carry 1 mark.
- (iv) Each objective type question has to be framed with four optional answers viz. a), b), c), d) with single choice.
- (v) No negative marking has to be done.
- (vi) The paper setter is requested to please submit the key along with the question paper.

(Section – A)

Subject -- Research Methodology

Scientific Process : Meaning and Definition, a brief history of scientific process

Introduction of Research Methodology : Meaning of research, objectives of research, types of research, significance of research, problems encountered by researchers in India.

Research Problems : Definition, necessity and techniques of defining research problems. Formulation of research problem, Objectives of research problem.

Research Design : Meaning, need and features of good research design. Types of Research Designs. Basic principles of Experimental Designs, Design of experiments.

Sampling Techniques : Census and sample surveys, characteristics of good sample design. Different types of sampling techniques, Simple Random, Stratified and systematic sampling.

Data Collection : Primary and secondary data. Methods of collecting primary and secondary data. Various of measures of characterization of data. Distributions.

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10-07-2018

M. Dube
10/7/18

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Janta
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