

SYLLABUS

FOR

RESEARCH ELIGIBILITY TEST (RET)

OF

MPHIL/PHD IN LIBRARY AND INFORMATION SCIENCE

(To be effective from 2018-19 academic sessions)

UNIVERSITY OF NORTH BENGAL

Department of Library and Information Science

Raja Rammohunpur, Darjeeling

PIN-734013

2018

Part –IA: RESEARCH METHODOLOGY

Marks: 50

Unit 1: Research Methods: Meaning objectives and characteristics of research. Kinds of research fundamental, Basic and Applied. Types of research methods- Historical, Experimental and Descriptive or Survey. Historical Research: Nature, scope and importance - Sources of historical data - documentary and non-documentary. Relics, Document Research - External criticism and internal criticism. Experimental Research: Research in science and technology - Laboratory, Variables, Experimental design, Sources of scientific data.

Unit 2: Descriptive/Survey Research: Nature and Types. Research in social sciences. Sampling - Types and techniques. Techniques of collecting primary data: Observation, Questionnaire, Schedules, Interview, case study. Research Setting and Design: Steps of research - selection and statement of the problem. Hypotheses, Collection, Evaluation, Organization, Analysis and Interpretation of Data; Research Proposal and Research Design; Research Report - format, style and structure.

Unit 3: Bibliometrics: Origin and definitions & scope. Bibliometrics Laws. Zipf's law, Lotka's law and Bradford's law - Obsolescence; Half-life. Validity informetric measurement & application in libraries and information centres. Citation process, co-citation and coward clustering, bibliographic coupling. Bibliometric applications- Bibliometric analysis of literature in different subjects. Operations Research.

Unit 4: Application of Research Methods in Library & Information Science: Role of libraries and information centers in Research Development and modern trends in research -Trends and techniques of research in humanities, social sciences; sciences and technologies. Research in Library & Information Science.

Part –IB: ADVANCES IN LIBRARY AND INFORMATION SCIENCE Marks: 50

Unit 1: Informatics, Information Management, Cybernetics, Information Technology, Typology of information sectors in modern society, Information Professions and their specializations, Information Society. Data Security, Information Security

Unit- 2: Types of Management Processes: Quality management: Quality concept, element and application to libraries and information centres. Quality management and standards- ISO-9001 Quality Audit; Total Quality Management: Definition, scope and purpose and application to Libraries and information centres. Project management: Organizational planning, PERT/CPM, SWOT Analysis. Change Management: Concepts of Change; Change in Procedures, Methods, use of new tools and techniques.

Unit 3: IR Systems: Meaning, Role. Vocabulary Control, Search and Retrieval; Indexing Languages: Contributions of Cutter, Kaiser, and Ranganathan etc. Evaluation of IR System. Automatic Indexing and Intelligent IR. Users of IR Systems. Information Services: information transfer and dissemination: specific types of Information Services - CAS, SDI, Abstracting services, Translation services, Literature search, etc.

Unit 4: Database Management System (DBMS) - Use of DBMS package for local database creation. Telecommunication systems and Network. Open source and open access movement – Impact on Library and Information Science. Overview of Library Management Software.

Part – II: VIVA-VOCE

Marks: 100