Information and Library Network Centre
An Autonomous Inter-University Centre of UGC
Gandhinagar - 382007

Details for Selection Procedure

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Posts</th>
<th>Selection Pattern</th>
<th>Nos. of MCQ for Screening Test</th>
<th>Total Marks</th>
<th>Duration</th>
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<tbody>
<tr>
<td>1</td>
<td>Scientist-B (LS)</td>
<td>Screening test followed by interview (Top 12(twelve) candidates against one post, in order of merit will be short-listed for interview)</td>
<td>50</td>
<td>50</td>
<td>60 Min.</td>
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Date of Screening Test/Interview: Sunday, 12th September 2021
Reporting time: 9:00 AM
Venue: INFLIBNET Centre, INFOCITY, Gandhinagar, GUJARAT

NOTE: Top 12(twelve) candidates against one post, in order of merit will be short-listed for interview.

Tentative time for Interview: 14:00 Hours onwards

[Indicative Syllabus and weightage for Screening Test for the post of Scientist-B(LS)]

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<tr>
<th>Sl No</th>
<th>Topics</th>
<th>Weightage in %</th>
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<tbody>
<tr>
<td>1</td>
<td>• Types of Libraries – Academic, Public and Special.</td>
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<td>• Library Legislation and Library Acts in Indian States; The Press and Registration of Books Act;</td>
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<td>• Laws of Library Science.</td>
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<td>• Professional Associations - National – ILA, IASLIC, IATLIS; International – IFLA, ALA, CILIP, ASLIB, SLA; Role of UGC, RRRLF and UNESCO in Promotion and Development of Libraries.</td>
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<td>• Library and Information Science Education in India</td>
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<td>• Library Extension Activities</td>
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<td>• Trends in Library and Information Science</td>
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<td>2</td>
<td>• Data, Information, Knowledge and Wisdom.</td>
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<td>• Information Life Cycle - Generation, Collection, Storage and Dissemination.</td>
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<td>• Information Science - Relationship with other subjects, Information Society and Knowledge Society.</td>
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<td>• Communication – Concept, Types, Theories, Models, Channels and Barriers; Trends in Scholarly communication.</td>
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<td>• IPR and Legal Issues - Categories, Conventions, Treaties, Laws.</td>
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<td>• Right to Information Act (RTI); Information Technology Act.</td>
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<td>• National Knowledge Commission; National Mission on Libraries</td>
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- Information Literacy - Areas, Standards, Types and Models; Trends in Information Literacy
- Sources of Information - Primary, Secondary and Tertiary; Documentary and Non-Documentary.
- Reference Sources - Bibliographical, Biographical, Educational, Language and Geographical.
- Electronic Information Resources - Subject Gateways, Web Portals, Bulletin Boards Discussion Forums/Groups.
- Databases: Bibliographic, Numeric, Full text, Multimedia; Open Access Databases.
- Evaluation of Reference Sources and Web Resources.
- Search and Discovery Services.
- National Information Systems and Networks: NISCAIR, DESIDOC, SENDOC, ENVIS, INFLIBNET, DELNET, NICNET, ERNET, National Knowledge Network (NKN), Biotechnology Information System Network

- Type of Users - User Studies, User Education.
- Community Information Services.
- Reference Service – Concept and Types; Referral Services
- Alerting Services - CAS, SDI, Inter Library Loan and Document Delivery.
- Mobile based Library Services and Tools – Mobile OPAC, Mobile Databases,
- Mobile Library Website, Library Apps, Mobile Library Instructions, Augmented Reality, SMS Alerts, Geo-Location, Reference Enquiry.
- Web 2.0 and 3.0 - Library 2.0- Concept, Characteristics, Components; Instant Messaging, RSS Feeds, Podcasts, Vodcasts, Ask a Librarian
- Collaborative Services- Social Networks, Academics Social Networks, Social Tagging, Social Bookmarking.
• Universe of Knowledge - Nature and Attributes; Modes of Formation of Subjects.
• Knowledge Organisation - Classification -Theories, Canons, and Principles;
• Simple Knowledge Organisation System (SKOS), Taxonomies, Folksonomy, Trends in Classification.
• Mapping of Subjects in Library Classification Schemes – DDC, UDC and CC.
• Knowledge Organisation: Cataloguing - Canons and Principles; Centralized and Co-operative Catalogue; Library Cataloguing Codes: CCC and AACR - II.
• Standards of Bibliographic Record Formats and Description – ISBD, MARC 21, CCF, RDA, FRBR, Bibframe.
• Metadata Standards: Dublin Core; MARC21, METS, MODES, EAD.  
• Indexing Systems and Techniques: Assigned - Pre-coordinate; Post-Coordinate; Derived- Title-based; Vocabulary Control.
• Abstracting – Types and Guidelines.
• Information Retrieval System – Features, Components, Models and Evaluation.
• Ontology – Tools (RDF, RDFS, Protege).

• Computer Technology - Character Representation (ASCII, ISCII, Unicode);
• Computer Hardware, Software; Storage Devices; Input and Output Devices.
• Types of Software - System Software, Application Software.
• Telecommunication - Transmission Channels, Mode, and Media, ISDN, PSDN,
• Computer Networks - Topologies, Types of Networks – LAN, MAN, WAN.
• Internet - Web browsers, WWW, E-mail; Search Engines, Meta and Entity Search engines.
• Internet Protocols and Standards – HTTP, FTP, SMTP, TCP/IP, URI, URL.
• Hypertext, Hypermedia, Multimedia, Video conferencing, Virtual Reality.
• Cloud Computing
• Semantic Web, Linked Data, Big Data, Data Mining, Data Harvesting
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| 7    | - Library Automation – Areas, Planning, Selection of Hardware and Software,  
- Implementation and Evaluation; Standards for Library Automation,  
- Barcode, RFID, QR Code, Biometric, Smartcard: Features and Applications.  
- Digital Library: Genesis, Characteristics, Types, Architecture; Standards, Formats and Protocols, DOI.  
- Digital Preservation - Need, Purpose, Standards, Methods, Techniques, Projects (National and International)  
- Digital Library Initiatives – National and International.  
- Institutional Repositories - Need, Purpose, Types and Tools; Institutional Repositories in India; ROAR, DOAR, SHERPA-ROME0.  
- Content Management Systems – Architecture, Data Integration, CMS Software –  
- Selection, Implementation and Evaluation. |
| 8    | - Research  
- Types of Research – Basic and Applied, Interdisciplinary and Multidisciplinary.  
- Research Methods: Historical, Descriptive, Experimental and Delphi.  
- Research Design - Selection of Research Problem, Review of Literature; Formulation of Research Problem; Hypothesis – Formulation, Types and Testing; Sampling Techniques.  
- Methods of Data Collection  
- Data Analysis and Interpretation  
- Plagiarism: Concept and Types.  
- Research Report Writing and Citation Tools – Structure, Style, Contents, Guidelines;  
- Style Manuals; Online Citation Tools; Reference Management Tools; Evaluation of Research Report.  
- Metric Studies in LIS - Bibliometrics, Scientometric, Webometrics, Altmetrics;  
- Impact Factors – Journal, h-Index, g-Index, i10 Index.  
- Trends in Library and Information Science Research. |
| 9    | General Aptitude / Awareness/Knowledge about INFLIBNET |