INFORMATION AND LIBRARY NETWORK CENTRE
(An Autonomous Inter-University Centre of UGC)
Infocity Gandhinagar

सं. आईएनएफ/प्रशा/भर्ती/वैज्ञानिक-सी/01-2024/2024   जून 06, 2024

Subject: Schedule and syllabus of selection process for the post of Scientist-C (Library Science) Advt.No.01/2024

Sl. No.	Details for Selection Procedure	Schedule of Screening Test & Interview	Venue
1.	Screening Test followed by interview (Top twelve candidates in the screening test, in order of merit will be shortlisted for interview) **Screening Test: 50 MCQs** **Total Marks: 50** **Duration of Screening Test: 60 minutes**	**Screening Test:** Reporting Time: 9:30 am Date: 02/07/2024 (Tuesday) **Interview of shortlisted candidates:** Timing: 2:30 pm onwards Date: 02/07/2024	INFLIBNET Centre, Gandhinagar, Gujarat

Indicative Syllabus and Weightage for Screening Test:

Sl. No.	Topics	Weightage in %
1.	• Types of Libraries – Academic, Public and Special. • Library Legislation and Library Acts in Indian States; The Press and Registration of Books Act. • Laws of Library Science. • Professional Associations - National – ILA, IASLIC, IATLIS; International – IFLA, ALA, CILIP, ASLIB, SLA; Role of UGC, RRRLF and UNESCO in Promotion and Development of Libraries. • Library and Information Science Education in India. • Library Extension Activities. • Trends in Library and Information Science.	5
2.	• Data, Information, Knowledge and Wisdom. • Information Life Cycle - Generation, Collection, Storage and Dissemination. • Information Science - Relationship with other subjects, Information Society and Knowledge Society.	5

	• Communication – Concept, Types, Theories, Models, Channels and Barriers; Trends in Scholarly communication. • IPR and Legal Issues - Categories, Conventions, Treaties, Laws. • Right to Information Act (RTI); Information Technology Act. • National Knowledge Commission; National Mission on Libraries	
3.	• Information Literacy - Areas, Standards, Types and Models; Trends in Information Literacy • Information Sources - Nature, Characteristics, Types and Formats. • 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 /Group. • Databases: Bibliographic, Numeric, Full text, Multimedia; Open Access Databases. • Evaluation of Reference Sources and Web Resources. • Search and Discovery Services. • Library Resource Sharing and Library Consortia – National and International. • National Information Systems and Networks: NISCAIR, DESIDOC, SENDOC, ENVIS, INFLIBNET, DELNET, NICNET, ERNET, National Knowledge Network (NKN), Biotechnology Information System Network • International Information Systems and Networks: INIS, AGRIS, INSPEC, MEDLARS, BIOSIS, ERIC, Patent Information System (PIS), Biotechnology Information System (BIS).	15
4.	• 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	10
5.	• 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.	15

	• 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. • Standards for Bibliographic Information Interchange & Communication - ISO 2709, Z39.50, Z39.71. • 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).	
6.	• 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	10
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. • Digitization – Planning, Selection of Materials, Hardware, Software, Process, Issues. • 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-ROMEO. • Content Management Systems – Architecture, Data Integration, CMS Software – • Selection, Implementation and Evaluation.	15

| 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. Statistical Packages – Spreadsheet, SPSS, Bibexcel, 'R' Statistics. 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. | 15 |
| 9. | General Aptitude / Awareness/Knowledge about INFLIBNET | 10 |

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