

# INDIAN STATISTICAL INSTITUTE

## Recruitment for posts of Scientific Assistant A (*Specialization: Library*)

### SECTION II

#### Syllabus for Online and Skill Tests

- **Data, Information, Knowledge and Wisdom:** Information life cycle; Information society and knowledge society, Communication – concept, types, theories, models, channels and barriers; Trends in scholarly communication, Information industry, IPR and legal issues, Laws, Plagiarism, Right to information act (RTI); Information technology act, National knowledge commission; National mission on libraries.
- **Historical Development of Libraries in India:** Historical development, committees and commissions on libraries in India, Types of libraries, Library legislation and library acts in Indian states; Laws of library science, LIS profession, Professional skills, competences and ethics, Professional associations – national & international and their roles in promotion and development of libraries, Library - public relations and extension activities, User studies, User education, Information literacy.
- **Information Sources - Nature, Characteristics, Types and Formats:** Sources of information – primary, secondary and tertiary; Documentary and non-documentary, Reference sources, Electronic information resources, Databases, Institutional and human resources, Evaluation of reference sources and web resources.
- **Community Information Services:** Reference service – concept and types; Referral services, Alerting services, Mobile based library services, Web 2.0 and 3.0 - concept, characteristics, components, usage; Collaborative services, National & international information systems and networks, Library resource sharing and library consortia.
- **Universe of Knowledge - Nature and Attributes:** Modes of formation of subjects, Knowledge organisation– classification & cataloguing– Theories & practice, Indexing and abstracting systems and techniques, Information retrieval system.
- **Management - Principles, Functions and Schools of Thought:** Book selection tools and principles; Library acquisition, Technical processing, Circulation, Serial control, Maintenance and stock verification; Preservation and conservation; Library building, Furniture and equipments; Green library building, Management information system (MIS), Knowledge management, Marketing of library products and services.
- **Computer Technology - Hardware and Software:** Computer hardware, software; Storage devices; Input and Output devices; Types of software, Programming languages, Telecommunication, Wireless communication, Mobile communication; Computer networks, Internet – web browsers, www, e-mail; Search engines, Meta and entity search engines; Internet protocols and standards, Data security, Network security, Firewalls, Cryptographic techniques, Anti-virus software.
- **Library Automation:** Standards for library automation, Barcode, RFID, QR code, Biometric, Smartcard, Digital library & related areas, Digital library initiatives – national and international, Institutional repositories, Content management systems.

- **Library and Information System:** Academic, public & special library and information systems; Community information system; Information services and system for persons with disability, children and women.

# Sample Questions for the Online Test

*Note: For each of the questions there are four suggested answers, of which only one is correct. You will score*

*4 marks for each correctly answered question,  
0 mark for each incorrectly answered question, and  
1 mark for each unattempted question.*

1. Mark the 'odd one out'
  - (a) Cow-Calf principle
  - (b) Principle of osmosis
  - (c) Wall picture principle
  - (d) Whole organ principle
2. An appropriate source to find out descriptive information is
  - (a) Bibliography
  - (b) Directory
  - (c) Encyclopedia
  - (d) Dictionary
3. Visual Display Unit in Computer is used for
  - (a) Input
  - (b) Output
  - (c) Control
  - (d) Storage
4. The "Theory of Demand" for book selection was given by
  - (a) Dury
  - (b) S R Ranganathan
  - (c) R McColvin
  - (d) John Harris
5. In the acronym POSDCORB, "CO" stands for
  - (a) Cooperation
  - (b) Coordination
  - (c) Correlation
  - (d) None of these
6. WIPO stands for
  - (a) World Information and Patents Organisation
  - (b) World Intellectual Property Organisation
  - (c) World International Property Organisation
  - (d) World Information Protection Organisation

7. Match the following:

List-I (Forms of Communication)	List-II (Medium)
(A) Communication Barrier	1. Radio
(B) Communication Medium	2. Shannon and Weaver
(C) Communication Model	3. Formal
(D) Communication Channel	4. Noise

Codes:

	A	B	C	D
(a)	1	2	3	4
(b)	4	1	2	3
(c)	2	3	4	1
(d)	3	2	1	4

8. The full form of T E I is
  - (a) Text Encoding Initiatives
  - (b) Text Encoding Information
  - (c) Text Encoding Institute
  - (d) Total Encoding Initiatives

9. 'Compaction' is an important feature of

- (a) Reviews      (b) Indexes      (c) Bibliographies      (d) Market Report

10. The structure of the main entry according to AACR-2R consists of

- (a) four parts      (b) five parts      (c) six parts      (d) eight parts
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