School of Planning and Architecture, Bhopal

Scheme of Written examination and Syllabus for Group 'A' Non-teaching positions

Assistant Librarian, Level 10

Scheme of examination (All questions will be objective type with no negative marking)		Maximum Marks	Duration of the Exam.
Part-A	**English Language-**Comprehension, Grammar, Sentence correction, One words, Antonyms, Synonyms, Idioms and Phrases, Clauses, Articles, Prepositions etc.	10	
	Mathematics & Numerical Ability: Arithmetic - up to 10th Standard. Numerical Computation, Numerical Reasoning, Data Reasoning and Data Interpretation etc.	10	
	Reasoning Ability: Number series, Letter series, Coding decoding, Direction sense , Blood relations, Mathematical reasoning, Statements and Conclusions, Logical Reasoning etc.	10	
	General Awareness and Current Affairs: Current Affairs, Government Schemes. Economics, Geography, Indian History, Indian Polity, Indian Constitution etc.	10	
	Part-A Total	40	
Part-B	**Domain Knowledge/ Field related knowledge**	60	

Syllabus of Domain Knowledge

Library Management and Library Computer Applications, Library Cataloging, Library Automation etc.

Total marks of written examination	100	Total duration: 120 minutes

School of Planning and Architecture, Bhopal

Technical Officer: Level 10

Scheme of examination (All questions will be objective type with no negative marking)		Maximum Marks	Duration of the Exam.
Part-A	**English Language-**Comprehension, Grammar, Sentence correction, One words, Antonyms, Synonyms, Idioms and Phrases, Clauses, Articles, Prepositions etc.	10	
	Mathematics & Numerical Ability: Arithmetic - up to 10th Standard. Numerical Computation, Numerical Reasoning, Data Reasoning and Data Interpretation etc.	10	
	Reasoning Ability: Number series, Letter series, Coding decoding, Direction sense , Blood relations, Mathematical reasoning, Statements and Conclusions, Logical Reasoning etc.	10	
	General Awareness and Current Affairs: Current Affairs, Government Schemes. Economics, Geography, Indian History, Indian Polity, Indian Constitution etc.	10	
	Part-A Total	40	
Part-B	**Domain Knowledge/ Field related knowledge**	60	

Syllabus of Domain Knowledge

1. Introduction to GIS concepts and principles, Types of formats in GIS data, spatial data analysis and visualization, GIS software tools (e.g. ArcGIS, QGIS), Cartography and map design, GIS data collection methods, Spatial database management.
2. Basis of Remote sensing technology , Electromagnetic spectrum and its interaction with earth's surface, Remote sensing platforms (Satellites, drone), image interpretation and classification, applications of remote sensing in various fields (environment, agriculture, urban and regional planning, landscape, conservation Architecture, disaster management).
3. Geospatial programming and tools, web based mapping tools and applications, open sources GIS software and plugins, Geospatial data privacy and security.
4. Familiarity with Government IT policies, data protection regulations and compliances.
5. Latest technology trends and awareness of technologies in the field of IT etc.

Total marks of written examination	100	Total duration: 120 minutes

School of Planning and Architecture, Bhopal

System Administrator, Level 10

Subject	Maximum Marks	Duration of the Exam.
Scheme of examination **(All questions will be objective type with no negative marking)**		
Part-A — **English Language-**Comprehension, Grammar, Sentence correction, One words, Antonyms, Synonyms, Idioms and Phrases, Clauses, Articles, Prepositions etc.	10	
Mathematics & Numerical Ability: Arithmetic - up to 10th Standard. Numerical Computation, Numerical Reasoning, Data Reasoning and Data Interpretation etc.	10	
Reasoning Ability: Number series, Letter series, Coding decoding, Direction sense , Blood relations, Mathematical reasoning, Statements and Conclusions, Logical Reasoning etc.	10	
General Awareness and Current Affairs: Current Affairs, Government Schemes. Economics, Geography, Indian History, Indian Polity, Indian Constitution etc.	10	
Part-A Total	40	
Part-B Domain Knowledge/ Field related knowledge	60	

Syllabus of Domain Knowledge

1. Concepts of various Operating systems   such as Windows, Python, Linux etc., installation, configuration and management.
2. Networking protocols, TCP/IP, LAN/WAN configuration, routing, firewall set up and network troubleshooting.
3. Understanding of system security, access control, authentication methods, encryption and vulnerability assessment.
4. Database management, setting up and managing web servers, email servers FTP servers etc.
5. Concepts of virtualization and cloud computing, cloud services, and their administration, Back up and recover.
6. Coding, VBA, Programming of software, knowledge of Scripting languages for automating task.
7. Familiarity with Government IT policies, data protection regulations and compliances.
8. Latest technology trends and awareness of technologies in the field of IT etc.

Total marks of written examination	100	**Total duration: 120 minutes**