

**Scheme of Examination for Direct Recruitment to the post of SENIOR SYSTEM ANALYST**

All questions are objective type/multiple choice (MCQ) and carry one mark each without negative marking for wrong answer on syllabus mentioned below:

MCQ Type	Test Components (Syllabus)	Duration 2 hrs.
		Marks
(a)	<b>Computer Networks &amp; Operating System :</b> Routing Protocols, SMTP (Simple Mail Transfer Protocol), Virtual LAN (VLAN), VoIP (Voice over IP), Wireless Networks, WLAN, Wi-Fi, LAN Testing, Network Extension, Network Protection & Security Threats, Network Change Management, LAN Proxy Server, Web Servers & File Servers, Operating System: Microsoft Windows & Linux Installation & Configuration.	25
(b)	<b>IT Project Management :</b> Software Development Life Cycle, Requirement Analysis & Engineering, IT Project Planning & Extension, Rational Unified Process, Unified Modeling Language, Software Analysis & Design, Concept of OOPs, Object Oriented Analysis and Design, Cost & Benefit Analysis, Software Change Management, IT Vendor Management, Client/server architecture, Deployment of web based applications.	25
(c)	<b>Internet &amp; Web Technologies:</b> HTML, Java Script, JSON, AJAX, XML, Web Servers: Tomcat, Apache, WAMP, IIS etc., Server Programming Languages - C++, Java, .NET, PHP, Web Design Tools, Mail clients, Browser Configuration, DNS & Web Hosting, Static & Dynamic Web Development.	25
(d)	<b>Software Tools &amp; Techniques:</b> Learning Management System (LMS), Content Management System (CMS). Software Installation & Configuration, Database Management System - Database design, Data Analyst, ER diagrams, Database Client: SQL Yog, SQL Developer, Database Server - My SQL, Oracle, SQL Server Object Relational Mapping (ORM) Tools.	25
	<b>TOTAL</b>	<b>100</b>

**NOTE:**

1. There will be 100 objectives type questions of 1marks each and the duration of the test will be 02 hours. The above syllabus is for written test to be conducted to shortlist the candidates for interview.
2. The candidates appeared in the written test shall be shortlisted for appearing in the interview in order of merit restricting the ratio 1:15 as prescribed in the CRR 2018. However, the marks scored in the written test are only for short-listing the candidates and it will have no weightage in the interview. The selection of the candidate for the post will be solely based on his/her performance in the interview.
3. Medium of question paper will be in English only.

**Scheme of Examination for Direct Recruitment to the post of **NETWORKING ADMINISTRATOR****

All questions are objective type/multiple choice (MCQ) and carry one mark each without negative marking for wrong answer on syllabus mentioned below:

MCQ Type	Test Components (Syllabus)	Duration 2 hrs.
		Marks
(a)	Uses of computer Networks, Network Hardware - LAN, MAN, WAN, Wireless Networks, Network Software - Protocol Hierarchy, Design and Issues for Layer, Client - Server Model, Peer to peer Network. Network Interface Card, Drivers, Magnetic Media, Twisted Pair Cable, Coaxial Cable, Fiber Optic Cable, Network Topologies - Bus, Ring, Star, Tree and other Topologies, Networking Devices - Repeaters, Bridges, Routers, Gateways, Hub and Switch.	<b>20</b>
(b)	Concept fo modulation and their application, Multiplexing - time division and Frequency division Switching, Circuit Switching, Packet Switching, Message OSI reference model, TCP/IP reference model, IP protocol, SMTP,PPP,FTP,HTTP,SNMP,IP-addresses, Concept of DNS.	<b>20</b>
(c)	ISDN Architecture, Use of PBX, FDDI. Ethernet Standards (IEEE 802.3), Introduction to Other Standards. Definition, Internet verses Internet Service Provider, E-mail-Architecture and Services, WWW-Client side, URL, Messenger, Search Engine.	<b>20</b>
(d)	The motivation for Internetworking, The TCP/IP Internet, Internet services, History and scope of the Internet, The Internet Architecture Board, The Internet Society. Introduction A Virtual Network, Internet Architecture and Philosophy, The concept of Unreliable Delivery, Connectionles Delivery System, The purpose of the Internet Protocol, The Internet Datagram, ARP, RARP.	<b>20</b>
(e)	Ethernet History, Ethernet Characteristics, Frame Types and Addressing, Media Access, Data Flow Ethernet Standards. Routing Fundamental, Routing Logic and Data Flow, Routed and Routing Protocols, An Introduction to IP Addressing, IP Addressing Construction, IP Address Classes, IP Address Technologies.	<b>20</b>
<b>TOTAL</b>		<b>100</b>

**NOTE:**

1. There will be 100 objectives type questions of 1marks each and the duration of the test will be 02 hours. The above syllabus is for written test to be conducted to shortlist the candidates for interview.
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