

APPENDIX – 1

Software Programmer Exam Syllabus

1. Fundamentals of Computers (Operating System, Data Structures, DBMS, Algorithms, Flow charts etc.).
2. **Middleware Stack, ERP Fundamentals, Payment Gateway, SMS Gateway Interface.**
3. Mobile Application Development (Android Programming).
4. Deployment of Application on various platform, Build and Release on various platforms, Version Control Fundamental.
5. Web Programming (**PHP, JSP, JavaScript, HTML5, CSS3, XML, JSON**).
6. Basics of SQL, SQL Database Configuration & Scripts (MySQL, Oracle, MSSQL).

Server & Network Administrator Exam Syllabus

1. Basic Fundamental of Computer Network, **LAN, WAN, MPLS, Scattered Cabling.**
2. IP Routing, Sub-netting, Super-netting, Classless Addressing, NAT, Socket Interface, Routing Protocol.
3. Basic of Linux Networking, Configuration of DNS, DHCP, Apache Server, Samba Server, Proxy Server, FTP Server, **Web Server.**
4. Working with Windows Server, Sharing managing other users and components of network, Active Directory Configuration, IIS Configuration, **Windows 2012/2016 Server**, System Configuration, **Single Sign on Configuration.**
5. Configuration of VPN, Configuration of Wireless Network Devices, **Firewall/UTM.**
6. Interconnecting Network Devices, Network Firewall Configuration on Devices, Configuration of Access List, Authentication Server, Router Security and Packet Filtering.
7. Network Troubleshooting, **NMS, EMS Suite Configuration Operation, RADIUS/TACACS.**