



## Tentative Syllabus of written examination for the post of Junior Programmer

Sr. No.	Description	Weightage
<b>1</b>	<b>PROGRAMMING LOGICS</b>	<b>10%</b>
	<ul style="list-style-type: none"><li>- Sample logics and query with outputs</li><li>- Array, pointers, class and object handling</li><li>- Structures, User define Functions</li><li>- All base on practical's</li></ul>	
<b>2</b>	<b>PHP AND JAVA</b>	<b>15%</b>
	<ul style="list-style-type: none"><li>- Installation and configuration</li><li>- Error and exception handling and Code Optimization</li><li>- Database connection (with MySQL, oracle, MSSQL and PostgreSQL), string functions, Session handling, Magic quote</li><li>- Date and Time, image processing, Text processing, Web Services (REST, XML, JSON and SOAP), XMS manipulation, Array, HTTP authentication, cookies, handling file upload</li><li>- MVC Frameworks like CodeIgniter and Laravel in PHP.</li><li>- JSP, Spring, hibernates in Java</li></ul>	
<b>3</b>	<b>MOBILE APPS (ANDROID DEVELOPING)</b>	<b>15%</b>
	<ul style="list-style-type: none"><li>- Installation and configuration of APK</li><li>- Android SDK, UI Design, Core Java concepts</li><li>- Firebase push notification</li><li>- Database Connection</li></ul>	
<b>4</b>	<b>MYSQL, ORACLE, MSSQL, POSTGRESQL</b>	<b>15%</b>
	<ul style="list-style-type: none"><li>- Installation and configuration</li><li>- Functions and Operators, Backup and Recovery, Optimization, SQL Statements, Data Types, Storage Engine, Errors, Error Codes, and Common Problems</li><li>- Procedure, Cursor, View, Triggers and Advance PL SQL</li><li>- Indexing and search engine concepts</li><li>- Data warehouse and Data Mining, Replication and Partitioning</li></ul>	



<b>5</b>	<b>API's AND WEB SERVICES</b>	<b>5%</b>
	<ul style="list-style-type: none"><li>- Web Services (REST, XML, JSON and SOAP)</li><li>- Third Party APIs likes BHIM UPI, Aadhar, Google, Facebook etc.</li><li>- Payment Gateways Integration, SMS Gateways Integration</li></ul>	
<b>6</b>	<b>JS / AJAX / JQuery</b>	<b>5%</b>
	<ul style="list-style-type: none"><li>- AJAX Development and Calling, AJAX Response and Request, XMLHttpRequest</li><li>- AJAX working with XML, PHP, Database</li><li>- JQuery Effects, JQuery with HTML, JQuery Traversing, JQuery with AJAX</li></ul>	
<b>7</b>	<b>WEB DESIGNING</b>	<b>5%</b>
	<ul style="list-style-type: none"><li>- Basic HTML, HTML5, Advance CSS, working with Bootstrap, responsive frameworks, UI designer.</li></ul>	
<b>8</b>	<b>LINUX</b>	<b>15%</b>
	<ul style="list-style-type: none"><li>- secure shell (SSH), Linux firewalls, packet filtering with iptables, GRUB boot manager, Linux programming, Linux clusters, Linux-Windows integration (terminal services, Samba server), High Availability.</li></ul>	
<b>9</b>	<b>WINDOWS SERVER</b>	<b>5%</b>
	<ul style="list-style-type: none"><li>- High Availability, Hyper-V, File Services, File and Print Services, Web Services</li></ul>	
<b>10</b>	<b>SERVER SECURITY</b>	<b>5%</b>
	<ul style="list-style-type: none"><li>- Firewall, NATing, Active Directory, LDAP</li></ul>	
<b>11</b>	<b>STORAGE</b>	<b>5%</b>
	<ul style="list-style-type: none"><li>- Cloud storage, Network-attached storage, Software-defined storage, Storage optimization, Storage virtualization.</li></ul>	