Rajasthan Public Service Commission, Ajmer

The Scheme & Syllabus for the competitive examination for the post of Programmer :

1. A candidate must appear in all the papers. The marks and time allowed for each Paper shall be as under:

<table>
<thead>
<tr>
<th>Name of Papers</th>
<th>Marks</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAPER- I</td>
<td>100</td>
<td>2 Hours</td>
</tr>
<tr>
<td>PAPER- II</td>
<td>100</td>
<td>2 Hours</td>
</tr>
</tbody>
</table>

**Note** :- “Minimum qualifying marks” :- Candidates who obtain a minimum of 40% marks in the aggregate for the written examination shall be considered to have obtained qualifying marks at the written examination, but the minimum qualifying marks in the written examination for the candidates belonging to Scheduled Castes/Scheduled Tribes, shall be 36%. The Commission/Appointing Authority may in their/its discretion award grace marks upto three in the aggregate.”

2. **SYLLABUS** : SYLLABUS AND SCOPE OF PAPERS FOR COMPETITIVE EXAMINATION FOR DIRECT RECRUTMENT TO THE POST OF PROGRAMMER :

**Written Examination**

**PAPER - I**

**Reasoning Test & Numerical Analysis & General Knowledge**

Problem solving, Data Interpretation, Data Sufficiency, Logical Reasoning and Analytical Reasoning. General Knowledge and Current Affairs relating to India and Rajasthan.

**Data Base Management Systems**


**Data Communication and Computer Networks**


**PAPER - II**

**System Analysis and Design**


**Programming Concepts**

Introduction: Internet, Java as a tool for internet applications, Byte Code and its advantages.

Java Programming Basics: Variables and assignments, Input and Output, Data Types and Expressions, Flow of control, Local variables, Overloading Parameter passing, this pointer, Java Object Oriented Concepts: Use of file for I/O, Formatting output with stream functions, Character I/O, Inheritance, Public and private members, Constructors for initializations, Derived classes, Flow of Control Arrays-Programming with arrays, arrays of classes, arrays as function arguments, Strings, Multidimensional arrays, Arrays of strings, vectors, Base classes.

Introduction to JSP, RMI, Java Applets and servlets.
Introduction to DotNet framework and visual programming interface.

**Note for general guidance for PROGRAMMER:**

(i) The standard of the paper will be that of a degree examination of a University established by law in India. A brief outline of the scope of each paper is given in this Schedule for general guidance of candidates but is not intended to be exhaustive.

(ii) All papers unless specifically required, shall be answered either in English or in Hindi, but no candidate shall be permitted to answer any one paper partly in Hindi or partly in English unless specifically allowed to do so.

(iii) If a candidate's hand-writing is not easily legible, a deduction will be made on this account from the total marks otherwise accruing to him.

(iv) Questions of question paper of examination may be of multiple choice type or descriptive type or both types.

(v) Credit will be given for orderly, effective and exact expression combined with due economy of words in all descriptive questions of the examination paper(s)."