

RPSC Programmer Syllabus, Exam Pattern 2024: Details, PDF!

The Rajasthan Public Service Commission decides the RPSC Programmer Syllabus and Exam Pattern. Candidates appearing for the [RPSC Programmer](#) exam must be aware of the same to prepare well for the exam. The RPSC Programmer Syllabus details the subject-wise topics from which questions will be asked in the exam. The RPSC Programmer Exam Pattern explains the marking scheme, type of questions, sectional weightage, etc. Check the detailed exam pattern and syllabus below.

- As per the RPSC Programmer Exam Pattern, the exam will have two papers of 100 marks each.
- The duration of each paper will be 2 hours.
- $\frac{1}{3}$ mark will be deducted for unanswered questions.

[Download RPSC Programmer Syllabus PDF](#)

RPSC Programmer Syllabus 2024

The RPSC Programmer Syllabus for Paper I and Paper II has been detailed in this section. Go through the subject-wise syllabus from the table below.

RPSC Programmer Syllabus 2024	
Subject	Syllabus
RPSC Programmer Paper I Syllabus	
Reasoning Test & Numerical Analysis & General Knowledge	<ul style="list-style-type: none">• Problem solving• Data Interpretation• Data Sufficiency• Logical Reasoning• Analytical Reasoning• General Knowledge• Current Affairs relating to India and Rajasthan

Data Base Management Systems	<ul style="list-style-type: none"> ER Diagram, data models- Relational and Object Oriented databases. Data Base Design: Conceptual data base design, Normalization Primitive and Composite data types, concept of physical and logical databases, data abstraction and data independence, data aggregation and Relational Algebra. Application Development using SQL: Host Language interface, embedded SQL programming, Stored procedures and triggers and views, Constraints assertions. Internal of RDBMS: Physical data organisation in sequential, indexed random and hashed files. Inverted and multilist structures, B trees, B+ trees, Query Optimisation, Join algorithm. Transaction Processing, concurrency control and recovery management. Transaction model properties and state serialisability. Lock base protocols, two phase locking.
Data Communication and Computer Networks	<ul style="list-style-type: none"> Computer Network Architecture, Circuit switching, Packet And Message Switching, Network Structure. Physical Layer, Data Link Layer, Framing. Retransmission algorithms. Multiple access and Aloha. CSMA/CD and Ethernet. High Speed LANs and topologies. Broadcast routing and spanning trees. TCP/IP Stack. IP Networks and Internet. DNS and Firewalls. Intrusion Detection and Prevention. Transport layer and TCP/IP. Network Management And Interoperability.
RPSC Programmer Paper II Syllabus	



testbook.com

System Analysis and Design	<ul style="list-style-type: none"> • System concept: Definition and characteristics, elements and boundaries, types of system development lifecycle, recognition of needs, feasibility study, prototyping, role of system analyst. • System planning and tools like DFD, data dictionary, decision trees, structured analysis and decision tables. • IPO charts, structured walkthrough, input output form design, requirement and classification of forms, layout considerations form control, object oriented Design • Concepts and methods. • Software Life Cycle, Software Engineering paradigms. • System analysis: Feasibility study requirement analysis, Cost benefit analysis, Planning systems, Analysis tools and techniques. • System Design: design fundamentals, Modular Design, Data and procedural design, object oriented design. • System Development: Code documentation, Program design paradigms, Efficiency Consideration. Verification, Validation and Testing: testing methods, Formal Program Verification, Testing Strategies. • Software Maintenance: Maintenance Characteristics, Maintainability, Maintenance tasks and side effects.
Programming Concepts	<ul style="list-style-type: none"> • Introduction: Internet, Java as a tool for internet applications, Byte Code and its advantages. • Object Oriented Programming and Design: Review of Abstraction, Objects and other basics, Encapsulation, Information hiding, Method, Signature, Classes and Instances, Polymorphism, Inheritance, Exceptions and Exception Handling with reference to object modeling, Coupling and Cohesion in object oriented software. • Object Oriented Design - Process, Exploration and Analysis. • 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.

The RPSC Programmer Exam Pattern specifies the marking scheme, type of questions, sectional weightage, and other such details. The detailed exam pattern for Paper I and Paper II is given below.

Subject	Marks	No. of Questions	Time
Paper I	100	100	2 hours
Paper II	100	100	2 hours

- There will be a negative marking for unattempted answers. 1/3 of the marks assigned to that question will be deducted.
- The exam will be held offline (OMR-based).

We hope this article on RPSC Programmer Syllabus and Exam Pattern was informative and helpful. Download the [Testbook App](#) to prepare online for various exams.





The Complete Exam Preparation Platform

 Free 20000+ Practice Questions

 15000+ MockTest & Quizzes

 Free 2000+ Video Lessons & PDF Notes

START LEARNING

Trusted by 1.5 Crore Students

Download the App From

