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**WBPSA Scientific Assistant Exam Pattern**

SRNO	Subject Name	No Of Questions	No Of Marks	Time Duration
1	General Knowledge	100 Questions	100 Marks	1 Hour 30 Mins
2	Physics			
3	Chemistry			
4	English			
5	Arithmetic			

**WBPSA Scientific Assistant Syllabus**

**General Knowledge**

- Science
- Books & Authors
- Geography – India & WB
- Abbreviations
- International & National Organizations
- Culture & Heritage
- Environmental Studies
- Economy
- Important Dates and Days
- History
- General Polity
- Awards and Honors
- Current Affairs – National & International

**Physics**

- Electric Current
- Oscillations
- Optics
- Atom
- Semiconductor
- Dynamics of Rigid Body
- Thermodynamics
- Nuclei
- Waves
- Electrostatics

### **Chemistry:**

- Aufbau principle
- Types of orbital ( s, p, d, f), the shape of orbital
- Modern periodic table
- Quantum Nos
- Fundamental particles of an atom (electron, proton, neutron)
- Rutherford's nuclear model
- Pauli's exclusion principle
- Raoult's law
- Ideal & Non- ideal solutions
- Colligative properties of solutions
- Types of Solutions

### **English:**

- Synonyms
- Vocabulary Test
- Pronoun
- Cloze Test
- Verbal Ability
- Tense
- Sentence Rearrangement
- Phrasal verbs
- Idioms and Phrases
- Antonyms
- Reading Comprehension
- Error Spotting

## **Arithmetic:**

- Boats And Streams
- Area
- Heights & Distances
- Logarithms
- Volume And Surface Area
- Simplification
- Decimal Fractions
- Races And Games Of Skill
- Profit And Loss
- Problems On Numbers
- Clocks
- Compound Interest
- Operations On Numbers
- Time And Distance
- Banker's Discount
- Problems On Trains
- Ratio And Proportion
- Chain Rule
- Stock & Shares
- Time And Work

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