

## Competitive Exam Subjects Table (2026-2027)

| # | Subject Name           | Book Title                                                                                                        | Author Name                                                                                                                                                                   |
|---|------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Nuclear Physics        | Principles of Nuclear Physics                                                                                     | Dr. Muneeb Adel Khalil                                                                                                                                                        |
| 2 | Quantum Mechanics      | <p>- Quantum Mechanics</p> <p>- Fundamentals of Quantum Mechanics</p> <p>- Introduction to Quantum Mechanics</p>  | <p>- Dr. Jassim Al-Husseini &amp; Dr. Abdulsalam Abdulameer</p> <p>- Dr. Salem Al-Shamaa &amp; Dr. Amjad Karjia</p> <p>- Dr. Hashem Aboud &amp; Dr. Diya Ahmed Al-Mukhtar</p> |
| 3 | Laser Physics          | <p>- Laser Physics and Some Practical Applications</p> <p>- Quantum Photonics and Lasers</p>                      | <p>- Dr. Siham Afif Qandala</p> <p>- Dr. Waleed Khalaf Hamoudi</p>                                                                                                            |
| 4 | Solid State Physics    | <p>- Introduction to Solid State Physics</p> <p>- Elementary Solid State Physics: Principles and Applications</p> | <p>- Kittel</p> <p>- Ali Omer</p>                                                                                                                                             |
| 5 | Electromagnetic Theory | Foundations of Electromagnetic Theory                                                                             | John R. Reitz, Frederick J. Milford, and Robert W. Christy                                                                                                                    |
| 6 | Atomic Physics         | Concepts of Modern Physics                                                                                        | Arthur Beiser                                                                                                                                                                 |

| # | Subject Name  | Book Title                                | Author Name                  |
|---|---------------|-------------------------------------------|------------------------------|
| 7 | Electricity 2 | Fundamentals of Electricity and Magnetism | Yahya Abdul-Hamid Al-Haj Ali |
| 8 | Mechanics 1   | University Physics with Modern Physics    | By Young et al., 2011        |

#### Academic Background of Master's Applicants

1. Graduates of the College of Education for Pure Sciences – Department of Physics
2. Graduates of the College of Education – Department of Physics
3. Graduates of the College of Science – Department of Physics