Preparing for university admission tests requires the right strategy and resources. Here’s a curated list of the best resources, categorized by type, to help you excel:

**1. Textbooks and Reference Books**

**a. Core Subjects (Mathematics, Physics, Chemistry, English)**

* **Bangla Medium:**
  + HSC textbooks (NCTB books) for Bangladesh.
  + Practice problem sets and examples from these books are crucial for BUET, KUET, CUET, and RUET exams.
* **English Medium:**
  + Cambridge A-Level and O-Level books by authors like David Sang (Physics), Peter Stimpson (Mathematics), and Karen Morrison (Chemistry).

**b. Additional Resources:**

* **Mathematics:**
  + "Higher Algebra" by Hall & Knight.
  + "Calculus" by Thomas and Finney.
* **Physics:**
  + "Concepts of Physics" by H.C. Verma.
  + "Fundamentals of Physics" by Resnick, Halliday, and Walker.
* **Chemistry:**
  + "Organic Chemistry" by Morrison & Boyd.
  + "General Chemistry" by Raymond Chang.
* **English:**
  + "High School Grammar and Composition" by Wren and Martin.

**2. Question Banks and Guides**

* **Bangladesh Admission Test:**
  + "Engineering Admission Question Bank" by renowned local publishers (e.g., Lecture Publications, Prof. Guides).
  + Previous years’ question papers for BUET, KUET, RUET, and CUET.
* **International Exams (e.g., SAT, ACT):**
  + The Official SAT Study Guide by College Board.
  + Princeton Review or Kaplan guides for SAT/ACT preparation.

**3. Online Learning Platforms**

* **For Core Subjects:**
  + **Khan Academy:** Free lessons on Mathematics, Physics, Chemistry.
  + **MIT OpenCourseWare:** Advanced level topics for self-learners.
* **For Problem-Solving:**
  + **Brilliant.org:** Interactive lessons in mathematics and physics.
  + **EdX and Coursera:** University-level courses in STEM fields.

**4. Apps for Mobile Learning**

* **Physics Galaxy App:** Comprehensive Physics lessons.
* **Photomath:** For step-by-step solutions in mathematics.
* **Duolingo:** For improving English proficiency.

**5. Practice Tests and Mock Exams**

* **Coaching Centers (Bangladesh):** Renowned centers like Udvash, Unmesh, and Mentor offer mock exams tailored to engineering admission tests.
* **Online Tests:** Websites offering test series for engineering exams (local or international).
* **Self-Made Tests:** Create time-bound tests using previous years’ questions.

**6. Study Forums and Communities**

* **Quora/Reddit:** Participate in forums dedicated to engineering aspirants.
* **Facebook Groups:** Many groups focus on Bangladesh’s admission tests (e.g., "BUET Admission Test Help" group).
* **Discord:** Join servers where students discuss strategies and resources.

**7. Coaching Centers**

* **Local Coaching Centers (Bangladesh):**
  + Renowned ones include Udvash, Unmesh, and Saifur’s for targeted preparation.
* **International Tests (SAT, ACT):**
  + Coaching centers like Manhattan Review or Kaplan Test Prep.

**Tips for Success**

1. **Start Early:** Begin at least 6-8 months before the test.
2. **Focus on Fundamentals:** Clear basic concepts using textbooks.
3. **Solve Past Papers:** Familiarize yourself with the exam pattern and time management.
4. **Regular Revision:** Revise topics weekly to retain concepts.
5. **Mock Exams:** Simulate real test conditions to improve speed and accuracy.