

**BOĞAZIÇI UNIVERSITY INSTITUTE OF BIOMEDICAL ENGINEERING**  
**RESEARCH ASSISTANTSHIP WRITTEN EXAM**  
(as part of the overall assessment)

**Date & Time:** Tuesday, January 6, 2026 – 10:00 AM sharp.

**Place:** Institute of Biomedical Engineering  
Boğaziçi University, Kandilli Campus  
Rooms AZ18–19  
Rasathane Cd., No:104, Kandilli, Üsküdar, İstanbul

**Exam Guidelines:**

**Duration:** 3 hours (180 minutes)

**Format:** 12 questions total

→ You must answer **8 questions maximum, all in English.**

→ **4 questions are mandatory** from the *core group*

→ Remaining **4 questions** can be chosen from either the *core* or *optional* sections

**! Important:**

- Do **not** answer more than 8 questions. Only the first 8 (in question number order) will be graded.
- If fewer than 4 core questions are answered, optional ones will **not** count toward your core requirement.
- You may answer more than **4 core** questions. If you do, those additional core questions will count toward the optional portion. However, the total number of answers **must not exceed 8.**

**Scoring:** Each question is worth 12.5 points

**Rules During the Exam:**

- Closed book, no notes, **no internet access, no calculators**
- All mobile phones must be turned off and placed in the designated box

**Exam Content Overview:**

This exam evaluates both foundational and advanced topics in Biomedical Engineering, with an emphasis on Biomechanics and Biosibernetics.

**Core Topics** (expect mandatory questions from these):

- Basic Biology, Human Anatomy & Physiology
- Linear Systems & Algebra, Differential Equations
- Biomedical Instrumentation (including electronics, control systems, sensors)
- Biomedical Signal & Image Processing

**Supporting Topics** (may appear in optional questions):

- Basic Neuroscience
- Biophysics
- Biostatistics
- Neuroimaging
- Biomechanics
- Programming