

DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS

Implementation Guidelines for the PhD Qualifying Examination

1) Jury Composition

- a. The PhD Qualifying Examination Jury will consist of five (5) faculty members.
- b. Four of these members will be appointed by the PhD Qualifying Examination Committee.
- c. The student's thesis advisor will participate as the fifth member of the jury.
- d. The final jury will be composed of three (3) members from İzmir Institute of Technology (İYTE) and two (2) members from outside İYTE.

2) Written Examination

The written exam will be based on a total of five research articles, one of which will be related to the student's thesis topic. All articles will be provided to the student at least four weeks prior to the exam date.

Core subjects:

- Four articles will be selected from the core subjects of Biochemistry, Cell Biology, Genetics, and Molecular Biology.
- One faculty member will be assigned by the committee for each core subject.
- Each faculty member will select one research article in their respective field and prepare two questions based on it:
 - One question will cover basic knowledge related to the article's field,
 - The other question will focus on the content of the article.

Thesis Topic Area:

- The article related to the thesis topic will be selected by the student's thesis advisor, who will prepare two questions based on this article.

General Conditions:

- The total duration of the written exam will be 3 hours.
- The written exam will consist of 10 questions in total; 8 questions from the core subject articles and 2 questions from the thesis topic article.
- The student must score at least 70 out of 100 points to pass the written exam.

3) Oral Examination

The oral exam will be held one (1) week after the written exam. For the oral exam, an additional scientific article will be assigned to the student by the jury members excluding the thesis advisor. The student will present this article in front of the jury and answer the questions posed by the jury members. (Note: No changes have been proposed in the oral exam format.)