

**Approved**  
**Head of the Department of MSN&EP**



Kakimov U.K.

signature

«02» April 2025.

Approved at the meeting of the Department of Materials Science, Nanotechnology and Engineering Physics, protocol No. 8 dated March 31, 2025.

Discipline PHY 5353 - FUNDAMENTALS OF OPTICS

Code and name

Semester 2 academic year 2024-2025

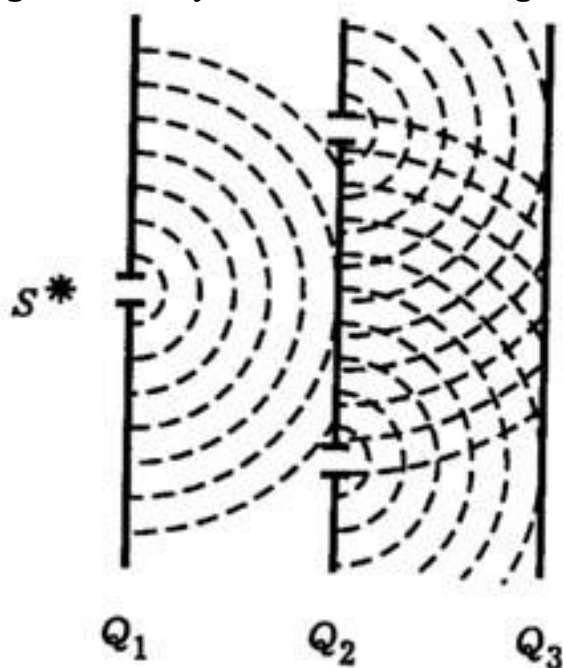
### Exam paper № 1

1. Maximum points - 18, Approximate time to complete - 40 min.

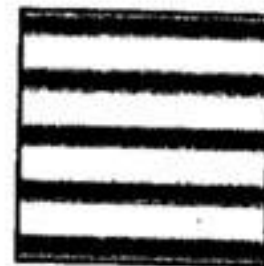
Energy flow, light intensity. Light impulse and pressure. Light polarization: elliptical, circular, linear polarization; naturally polarized light.

2. Maximum points 12, Approximate time to complete – 40 min.

In the figure bellow you can see the Young's experiment. How you can describe it?

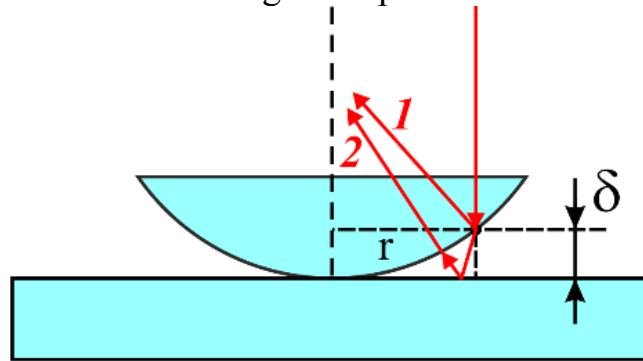


a)



b)

3. Maximum points - 10, Approximate time to complete - 40 min.  
What do you know about Newton's rings. See picture below.



Evaluation criteria:

1. Accuracy - 35%
2. Completeness of task completion - 35%
3. Creativity and originality - 30%

Compiled by  Kakimov U.K.