



LICEUL TEORETIC "BOLYAI FARKAS" ELMÉLETI LÍCEUM  
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MINISTERUL  
EDUCAȚIEI  
NAȚIONALE

**Bolyai Farkas Multidiszciplináris Tantárgyverseny**  
**Bolyai Farkas Elméleti Líceum, Marosvásárhely, 2022**

**Heinrich László Fizika Tantárgyverseny – országos szakasz**  
**Elektromosságtan – helyes válaszok**

**Válaszok:**

|             |   |   |   |   |                        |
|-------------|---|---|---|---|------------------------|
| 1.<br>(2p)  | A | B | C | D | pontok a<br>válaszokra |
|             |   |   | H |   |                        |
| 2.<br>(2p)  | A | B | C | D |                        |
|             |   |   |   | H |                        |
| 3.<br>(2p)  | A | B | C | D |                        |
|             |   |   | H |   |                        |
| 4.<br>(2p)  | A | B | C | D |                        |
|             |   |   | H |   |                        |
| 5.<br>(2p)  | A | B | C | D |                        |
|             |   | H |   |   |                        |
| 6.<br>(3p)  | A | B | C | D |                        |
|             |   | H |   |   |                        |
| 7.<br>(3p)  | A | B | C | D |                        |
|             |   |   |   | H |                        |
| 8.<br>(3p)  | A | B | C | D |                        |
|             |   | H |   |   |                        |
| 9.<br>(3p)  | A | B | C | D |                        |
|             |   | H |   |   |                        |
| 10.<br>(3p) | A | B | C | D |                        |
|             |   | H |   |   |                        |
| 11.<br>(3p) | A | B | C | D |                        |
|             |   |   |   | H |                        |
| 12.<br>(3p) | A | B | C | D |                        |
|             |   | H |   |   |                        |
| 13.<br>(3p) | A | B | C | D |                        |
|             |   |   | H |   |                        |
| 14.<br>(3p) | A | B | C | D |                        |
|             | H |   |   |   |                        |
| 15.<br>(3p) | A | B | C | D |                        |
|             | H |   |   |   |                        |

|   |   |   |   |   |  |
|---|---|---|---|---|--|
| 16.<br>(4p)                                   | A | B | C | D |  |
|   | H |   |   |   |  |
| 17.<br>(4p)                                   | A | B | C | D |  |
|   |   |   |   | H |  |
| 18.<br>(4p)                                   | A | B | C | D |  |
|   | H |   |   |   |  |
| 19.<br>(4p)                                   | A | B | C | D |  |
|   |   | H |   |   |  |
| 20/I.<br>(3p)                                 | A | B | C | D |  |
|   |   | H |   |   |  |
| 20/II.<br>(3p)                                | A | B | C | D |  |
|   |   | H |   |   |  |
| 20/III.<br>(3p)                               | A | B | C | D |  |
|   |   |   | H |   |  |
| 20/IV.<br>(3p)                                | A | B | C | D |  |
|   |   |   | H |   |  |
| 21/I.<br>(3p)                                 | A | B | C | D |  |
|   |   |   | H |   |  |
| 21/II.<br>(3p)                                | A | B | C | D |  |
|   | H |   |   |   |  |
| 21/III.<br>(3p)                               | A | B | C | D |  |
|   |   |   | H |   |  |
| 21/IV.<br>(3p)                                | A | B | C | D |  |
|   | H |   |   |   |  |
| A filmmel kapcsolatos kérdésekre adott válasz |   |   |   |   |  |
|   | A | B | C | D |  |
| 22.(2,5p)                                     |   |   | H |   |  |
| 23.(2,5p)                                     |   | H |   |   |  |
| 24.(2,5p)                                     |   | H |   |   |  |
| 25.(2,5p)                                     |   | H |   |   |  |

**Összesen:**

**Pontozás: összesen 100 pont:**

- Hivatalból: 10 pont
- 1-5 Feladat:  $5 \times 2 = 10$  pont
- 6-15 Feladat:  $10 \times 3 = 30$  pont
- 16-19 Feladat:  $4 \times 4 = 16$  pont
- 20-21 Feladat:  $2 \times 12 = 24$  pont
- 22-25 Kérdések (a filmmel kapcsolatosan):  $4 \times 2,5 = 10$  pont