

14. veljače 2020. od 16:30 do 17:30

2020 **Natjecanje** *iz informatike*

Županijsko natjecanje / Osnove informatike 7. i 8.
Osnovne škole

- RJEŠENJA ZA ISPRAVLJAČE -



Agencija za odgoj i obrazovanje
Education and Teacher Training Agency



HRVATSKI SAVEZ
INFORMATIČARA



Ministarstvo znanosti,
obrazovanja i sporta

Sadržaj

| | |
|-------------------------|---|
| Upute nastavniku | 1 |
| Rješenja zadataka | 2 |

Upute nastavniku

Vrijeme pisanja: 60 minuta

Test se sastoji od 24 pitanja. Točni odgovori se boduju s 1, 2 ili 3 boda. Nema djelomičnog bodovanja osim u zadacima gdje je to izričito naglašeno. Ukupan broj bodova je 42.







Odgovori na pitanja trebaju biti upisani u za to predviđena mjesta.

Odgovori napisani grafitnom olovkom neće se priznati.

Priznaje se samo točan i pravilno ispravljen odgovor napisan kemijskom olovkom.

Učenicima treba omogućiti žalbeni rok, svaku žalbu treba detaljno razmotriti.

Rješenja zadatka

| | Rješenje | Mogući bodovi | | | | | | | | | | | | |
|----|---|---------------------------------|---|----|---|----|---|----|---|---------------------|---|----|---|---------------------------------|
| 1. | A. 4800 Mbit/s | 1 | | | | | | | | | | | | |
| 2. | B. | 1 | | | | | | | | | | | | |
| 3. | C. $\bar{B} + \bar{B} \cdot \bar{C}$ | 1 | | | | | | | | | | | | |
| 4. | <p>A.  D.  E.  F.  G.  M. </p> <p><i>Napomena: Zadatak ima negativne bodove! Svaki netočan odabir poništava jedan točan odabir.</i></p> | 0,5+0,5+ 0,5+0,5+ 0,5+0,5 | | | | | | | | | | | | |
| 5. | <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>1.</td><td>D</td></tr> <tr><td>2.</td><td>C</td></tr> </table> <table border="1" style="display: inline-table;"> <tr><td>3.</td><td>A</td></tr> <tr><td>4.</td><td>B</td></tr> </table> | 1. | D | 2. | C | 3. | A | 4. | B | 0,5+0,5+ 0,5+0,5 | | | | |
| 1. | D | | | | | | | | | | | | | |
| 2. | C | | | | | | | | | | | | | |
| 3. | A | | | | | | | | | | | | | |
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| 1. | C | | | | | | | | | | | | | |
| 2. | E | | | | | | | | | | | | | |
| 3. | A | | | | | | | | | | | | | |
| 4. | B | | | | | | | | | | | | | |
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| 1. | B | | | | | | | | | | | | | |
| 2. | D | | | | | | | | | | | | | |
| 3. | A | | | | | | | | | | | | | |
| 4. | C | | | | | | | | | | | | | |
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| 1. | C | | | | | | | | | | | | | |
| 2. | D | | | | | | | | | | | | | |
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| 9. | <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>1.</td><td>F</td></tr> <tr><td>2.</td><td>C</td></tr> <tr><td>3.</td><td>N</td></tr> </table> <table border="1" style="display: inline-table;"> <tr><td>4.</td><td>I</td></tr> <tr><td>5.</td><td>H</td></tr> <tr><td>6.</td><td>S</td></tr> </table> | 1. | F | 2. | C | 3. | N | 4. | I | 5. | H | 6. | S | 0,5+0,5+ 0,5+0,5+ 0,5+0,5 |
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| 2. | C | | | | | | | | | | | | | |
| 3. | N | | | | | | | | | | | | | |
| 4. | I | | | | | | | | | | | | | |
| 5. | H | | | | | | | | | | | | | |
| 6. | S | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|-----|--|-----|---|----|---|----|---|----|---|--|--|----|---|---------------------|
| 10. | <table border="1"> <tbody> <tr> <td>1.</td> <td>D</td> <td></td> <td></td> <td>3.</td> <td>B</td> </tr> <tr> <td>2.</td> <td>C</td> <td></td> <td></td> <td>4.</td> <td>A</td> </tr> </tbody> </table> | 1. | D | | | 3. | B | 2. | C | | | 4. | A | 0,5+0,5+ 0,5+0,5 |
| 1. | D | | | 3. | B | | | | | | | | | |
| 2. | C | | | 4. | A | | | | | | | | | |
| 11. | 161.53.160.71 | 1 | | | | | | | | | | | | |
| 12. | 43914 | 1 | | | | | | | | | | | | |
| 13. | 1110C ₍₁₆₎ | 2 | | | | | | | | | | | | |
| 14. | s=37 | 2 | | | | | | | | | | | | |
| 15. | X ₍₁₀₎ =17 | 2 | | | | | | | | | | | | |
| 16. | 9731 | 2 | | | | | | | | | | | | |
| 17. | a) 5 b) 2 | 1+1 | | | | | | | | | | | | |
| 18. | X ₍₂₎ = 100100 | 1 | | | | | | | | | | | | |
| 19. | 132 ₍₁₀₎ 10000100 ₍₂₎ | 1+1 | | | | | | | | | | | | |
| 20. | X=1 | 1 | | | | | | | | | | | | |
| 21. | 26 | 1 | | | | | | | | | | | | |
| 22. | 8 | 1 | | | | | | | | | | | | |
| 23. | 68 | 2 | | | | | | | | | | | | |
| 24. | 36 | 2 | | | | | | | | | | | | |