**REŠITVE**

|  |  |
| --- | --- |
| **1.** | **naloga** |

1.1 A: sp2, B: sp2, C: sp3 *3 x 1,0 T*

1.2 C14H14O *2,0 T*

1.3 30 *1,0 T*

1.4 približno 109,5° (upoštevamo odgovore od 109° do 110°) *1,0 T* **Skupaj: 7,0 T**

|  |  |
| --- | --- |
| **2.** | **naloga** |

2.1 2C6H6 + 15O2 → 12CO2 + 6H2O 2*,0 T*

2.2 benzen *2,0 T*

2.3 aromatski ogljikovodiki (areni) 2*,0 T*

2.4 elektrofilne substitucije 2*,0 T* **Skupaj: 8,0 T**

**3. naloga**

|  |  |  |
| --- | --- | --- |
| 3.1 | C7H16 | 2*,0 T* |
| 3.2 |  | 2*,0 T* |
| 3.3 |  | *3 x* 2*,0 T* |

**Skupaj: 10,0 T**

**4. naloga**

4.1 2-nitrobenzaldehid ali 2-nitrobenzenkarbaldehid ali o-nitrobenzaldehid

oz. o-nitrobenzenkarbaldehid 2*,0 T*

4.2 propil metanoat ali propil format 2*,0 T*

4.3 4,5,6-trimetilhepta-1,4-dien 2*,0 T*

4.4 4-etil-6-metilcikloheksan-1,3-diol 2*,0 T* **Skupaj: 8,0 T**

**5. naloga**

|  |  |
| --- | --- |
| **Racionalna ali skeletna formula** | **IUPAC ime** |
|  | ciklopentanol |
|  | 1-metilciklobutanol |
|  | 2-metilciklobutanol |
|  | 3-metilciklobutanol |
|  | 1,2-dimetilciklopropanol |
|  | 2,2-dimetilciklopropanol |
|  | 2,3-dimetilciklopropanol |
|  | 1-etilciklopropanol |
|  | 2-etilciklopropanol |

Vsaka pravilna formula in pravilno ime spojine: *2,0 T*. **Skupaj: 12,0 T**

Vsaka pravilna formula ob napačnem imenu spojine: *1,0 T*.   
Ime spojine se upošteva le, če je formula spojine popolnoma pravilna.   
Upošteva se le šest zapisanih formul.

**6. naloga**

6.1 Cl2 / Δ ali Cl2 / hν 2*,0 T*

6.2 Cl2 / AlCl3 (priznamo tudi Cl2 / FeCl3) 2*,0 T*

6.3 H2 / Ni (Pt, Pd, Rh …); priznamo tudi LiAlH4 2*,0 T* **Skupaj: 6,0 T**

**7. naloga**

7.1 2-metilpropan-2-ol 2*,0 T*

7.2 butan-1-ol 2*,0 T*

7.3 Med molekulami butan-1-ola so bistveno močnejše privlačne sile   
(vodikove vezi) kakor med molekulami butanala. 2*,0 T* **Skupaj: 6,0 T**

**8. naloga**

|  |  |  |  |
| --- | --- | --- | --- |
| 8.1 | A |  | 2*,0 T* |
|  | B |  | 2*,0 T* |
|  | C |  | 2*,0 T* |
| 8.2 | Butanon ali butan-2-on | | *1,0 T* |

**Skupaj: 7,0 T**

**9. naloga**

|  |  |  |
| --- | --- | --- |
| 9.1 |  | 3*,0 T* |
| 9.2 | Elektrofilna adicija | 2*,0 T* |
| 9.3 |  | 2*,0 T* |
| 9.4 | kloridni ion (imen klor, klorov atom ipd. ne priznamo) | 1*,0 T* |

**Skupaj: 8,0 T**

**10. naloga**

|  |  |  |
| --- | --- | --- |
| A |  | 2*,0 T* |
| B |  | 2*,0 T* |
| C |  | 2*,0 T* |
| D |  | 2*,0 T* |

**Skupaj: 8,0 T**

**Vse skupaj: 80,0 T**