**13-ameliy shing`uw.**

**O’ZGERMES TOK NIZAMLARI**

***1-ESAP.*** Elektr sxemasindag`i ampermetrnin` ko`rsetkishini aniqlan. Jabiq shinjirnin` ushlarindag`i kushleniw U,R1 R2 R3 qarsiliqlar malim. Ampermetrnin` qarsilig`ini esapg`a alman.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **№** | **Sxema** | **U, V** | **R1 , Om** | **R2, Om** | **R3, Om** |
| 1 |  | 2,1 | 5 | 6 | 3 |
| 2 | 3,0 | 7 | 2 | 3 |
| 3 | 4,2 | 6 | 4 | 6 |
| 4 | 2,8 | 3 | 4 | 9 |
| 5 |  | 4,0 | 4 | 8 | 12 |
| 6 | 12,0 | 10 | 6 | 8 |
| 7 | 20,0 | 8 | 7 | 6 |
| 8 | 8,0 | 12 | 10 | 8 |
| 9 |  | 12,0 | 2 | 4 | 8 |
| 10 | 20,0 | 6 | 8 | 10 |
| 11 | 8,0 | 8 | 6 | 4 |
| 12 | 6,0 | 12 | 5 | 10 |
| 13 |  | 2,2 | 4 | 2 | 6 |
| 14 | 3,6 | 6 | 10 | 4 |
| 15 | 4,8 | 10 | 8 | 12 |
| 16 | 6,0 | 14 | 6 | 8 |

***2-esap***. ***m*** awirliqdag`i suw ***t1*** temperaturadan qayng`anshe isituw ushin ***W*** elektr tokinan paydalanildi. Isitg`ishnin` F.I.K. ***η*** berilgen tablicadan tapsiriq sani bo’yinsha belgisiz shamalardi tabin.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| № | m, kg | t1,0S | W, kJ | n, % |
| 1 |  | 30 | 1257 | 80 |
| 2 | 2,2 |  | 921,8 | 58 |
| 3 | 2,38 | 23 |  | 77 |
| 4 | 2 | 20 | 838 |  |
| 5 |  | 20 | 900 | 74,5 |
| 6 | 1,8 |  | 754,2 | 67 |
| 7 | 3,58 | 45 |  | 55 |
| 8 | 3 | 40 | 1250 |  |
| 9 |  | 25 | 1400 | 78,6 |
| 10 | 1,6 |  | 670,4 | 83 |
| 11 | 3,58 | 28 |  | 72 |
| 12 | 2,5 | 30 | 1047,5 |  |

***3-esap.*** E.YU.K. ε ham ishki qarsiliq ***r*** bo’lg`an element ***Imax*** maksimal tok kushi beredi. Bul element beretug`in maksimal paydali quwat ***Pmax***. Berilgen tablicadan tapsiriq sani bo’yinsha belgisiz shamalardi tabin.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| № | ε, V | r, Om | Imax , A | ***Pmax*** |
| 1 | 6 |  | 3 |  |
| 2 | 4 | 2 |  |  |
| 3 |  | 2 | 4 |  |
| 4 | 4 | 2 |  | 2 |
| 5 |  |  |  | 8 |
| 6 | 10 |  | 2 |  |
| 7 |  | 5 | 4 | 6 |
| 8 | 2 |  |  |  |
| 9 | 4 | 1 |  | 2 |
| 10 |  | 3 | 4 |  |
| 11 | 6 |  |  |  |
| 12 |  | 2 | 2 | 3 |

***4-esap. t=0****0S* temperaturada ***R0*** qarsiliqqa iya bo’lg`an simnan jasalgan reostat, ***RA*** ishki qarsiliqli milliampermetr ham qarsilig`ini esapg`a almasada bo’latug`in tok generatori izbe – iz jalg`ang`an. *00S* temperaturada milliamper ***I0*** tokni ko’rsetedi. Eger reostat ***Δt*** temperaturag`a qizsa*,* milliamper ***I1*** tokni ko’rsetedi. Resotat siminin temperatura koeffitsenti ***α***. Berilgen tablicada tapsiriq sani bo’yinsha belgisiz shamalardi tabin.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| № | R**0**, Om | Ra, Om | Io, mA | ***Δt***, K | I1, mA | ***α***, 1/K |
| 1 |  | 5 | 10 | 100 | 9,2 | 5·10-3 |
| 2 | 100 |  | 31 | 80 | 22 | 6·10-3 |
| 3 | 120 | 20 |  | 50 | 20 | 6·10-3 |
| 4 | 80 | 4 | 102 |  | 95 | 7·10-3 |
| 5 | 80 | 5 | 25 | 60 |  | 5·10-3 |
| 6 | 120 | 8 | 83 | 16,4 | 76 |  |
| 7 |  | 4 | 132 | 40 | 120 | 6·10-3 |
| 8 | 60 |  | 20 | 80 | 18 | 2·10-3 |