



Ac

оқу бағары

№ р/б	
1	Қазақ
2	Қазақ
3	Орыс
4	Орыс
5	Шете
6	Дүние
7	Қазақ
8	Қолдан
9	Матем
10	Инфо
11	Физик
12	Химия
13	Биология
14	Геогр
15	Аулақ
16	Дене
17	Мәжес
18	Филин

Árp

С. 23

;
MgbdZevguc

```
I?>:=H=L?J>1 ;1E1F1G ;; :E:M>:G &LM LMJ:EU K?JLBNBD:L
K?JLBNBD:L H IJHOH@>?GBB HP?GDB AG:GBC I?>:=H=H<
:i_eeypbygu _k_id_ Ze•Zg^Z•u l_kl•e_m^•• g©lb`_
J_amevlZl l_kljbjh\Zgby k mq_lhf Zi_eeypbb
```

@ K G B E L @ D B C

D:J:L:? \leq : E:MJ: D:BJ;?DH<G:

L : " [Zj [he•Zg `Z•^Zc^Z N B H ijb _]h gZebqbb

L_kl•e_m lZiku j Z
 >ZlZ k^Zqb l_klb
 L_kl•e_m lZiku j :klZgZ
 F_klh k^Zqb l_kll :klZg

$$\frac{L_{kl} \cdot e_m}{Y_{aud} k^Z q_b l_{kl}} \frac{ZaZ}{dZaZok} r$$
D_e_k• g%lb`_ d'jk_||•
lhdZaZe Z ke_^mxsbc |
$$\frac{l \cdot g \cdot r \text{ } [_] \text{ } _g \text{ } [\bullet e \bullet d l \bullet e \bullet d \text{ } kZgZlugZ \text{ } [Zee \text{ } \text{ } l \text{ } ^Z]h] \text{ } lZ \text{ } ueuf^ZfZru}{gZ[jZe \text{ } \text{ } Z \text{ } [Zeeu \text{ } gZ \text{ } aZy \backslash e \text{ } _ggmx \text{ } d \backslash Zebr \text{ } l \text{ } ^Z]h] \text{ } klZ \text{ } \text{ } _j \text{ } l \text{ } _}$$

C	Fh^mev^• ZIZmu GZbf_gh\Zgb_ fh^mey	L_kl IZikujfZeZjug kZgu Dhebq_kl\ l_klh\uo aZ^	? `h Zju f f [Zee khfZk FZdkbfZev \hafh`gZy k [Zeeh\ [_a mq_lZ Zi_	:i_eeypbygu_ ZefZ Zg^Z `bgZ Zg [Ze^ GZ[jZggu_ [Z	:i_eeypbygu_ Ze Zg^Z u `b [Ze^Zju GZ[jZggu_ mq_lhf Zi_ee
	: uerug l•e• :g]ebckdbc yaud				
	H ulm %^•kl_f_k• F_lh^bdZ ij_ih^Z\Zgby				

