

Causative Stem 2	پڑھوا <i>paRh-waa</i>			
Infinitive	پڑھوانی <i>paRh-waa-nee</i>	پڑھوانے <i>paRh-waa-ney</i>	پڑھوانا <i>paRh-waa-naa</i>	
Repetitive	پڑھواتیں <i>paRh-waa-teeN</i>	پڑھواتی <i>paRh-waa-tee</i>	پڑھواتے <i>paRh-waa-tey</i>	پڑھواتا <i>paRh-waa-taa</i>
Perfective	پڑھوائیں <i>paRh-waa-eeN</i>	پڑھوائی <i>paRh-waa-ee</i>	پڑھوائے <i>paRh-waa-ey</i>	پڑھوایا <i>paRh-waa-yaa</i>
Subjunctive	پڑھوائیں <i>paRh-waa-eyN</i>	پڑھوں <i>paRh-ooN</i>	پڑھوئے <i>paRh-aa-ey</i>	پڑھواو <i>paRh-waa-ao</i>
Imperative	پڑھوایئے <i>paRh-waa-eeey</i>	پڑھوائیں <i>paRh-waa-eyN</i>	پڑھواو <i>paRh-waa-ao</i>	پڑھو <i>paRh-waa</i>

These sixty forms are shown with complete morphological information in Table 4.16. For verb forms mostly there is no ambiguity, however the subjunctive morpheme *-eyN* has three different tags sets and the same morpheme appears also in imperative form. Similarly, the root form and the imperative rude form are the same due to the existence of a null morpheme for the imperative rude form. The verb forms are considered different if they lie in different categories, i.e., infinitive, perfective, repetitive, subjunctive and imperative forms in the categorization shown in Table 4.16. Therefore, the subjunctive verb that ends with morpheme *-eyN* having three different tags is considered one form, while imperative form having the same morpheme is considered a separate form.

**Table 4.16: Sixty Forms of Verb 'Read' with Morphological Information**

Sr. No.	Urdu script	Transliteration	Morphological Information
1	پڑھ	<i>paRh-</i>	paRhnaa+V+root
2	پڑھنا	<i>paRh-naa</i>	paRhnaa+V+inf+masc
3	پڑھنی	<i>paRh-nee</i>	paRhnaa+V+inf+fem
4	پڑھنے	<i>paRh-ney</i>	paRhnaa+V+inf+obl
5	پڑھتیں	<i>paRh-teeN</i>	paRhnaa+V+repeat+fem+pl
6	پڑھتی	<i>paRh-tee</i>	paRhnaa+V+repeat+fem+sg
7	پڑھتے	<i>paRh-tey</i>	paRhnaa+V+repeat+masc+pl
8	پڑھتا	<i>paRh-taa</i>	paRhnaa+V+repeat+masc+sg
9	پڑھیں	<i>paRh-eeN</i>	paRhnaa+V+perf+fem+pl
10	پڑھی	<i>paRh-ee</i>	paRhnaa+V+perf+fem+sg
11	پڑھے	<i>paRh-ey</i>	paRhnaa+V+perf+masc+pl
12	پڑھا	<i>paRh-aa</i>	paRhnaa+V+perf+masc+sg
13	پڑھیں	<i>paRh-eyN</i>	paRhnaa+V+subj+1st+pl paRhnaa+V+subj+2nd+polite paRhnaa+V+subj+3rd+pl
14	پڑھوں	<i>paRh-ooN</i>	paRhnaa+V+subj+1st+sg
15	پڑھے	<i>paRh-ey</i>	paRhnaa+V+subj+3rd+sg
16	پڑھو	<i>paRh-ao</i>	paRhnaa+V+subj+2nd+formal
17	پڑھئے	<i>paRh-eeay</i>	paRhnaa+V+subj+2nd+request
18	پڑھیں	<i>paRh-eyN</i>	paRhnaa+V+impr+2nd+polite
19	پڑھو	<i>paRh-ao</i>	paRhnaa+V+impr+2nd+formal

Sr. No.	Urdu script	Transliteration	Morphological Information
20	پڑھ	<i>paRh-</i>	paRhnaa+V+impr+2nd+frank
21	پڑھا	<i>paRh-aa</i>	paRhnaa+V+root +caus I
22	پڑھانا	<i>paRh-aa-naa</i>	paRhnaa+V+caus I+inf+masc
23	پڑھانی	<i>paRh-aa-nee</i>	paRhnaa+V+caus I+inf+fem
24	پڑھانے	<i>paRh-aa-ney</i>	paRhnaa+V+caus I+inf+obl
25	پڑھائیں	<i>paRh-aa-teeN</i>	paRhnaa+V+caus I+repeat+fem+pl
26	پڑھاتی	<i>paRh-aa-tee</i>	paRhnaa+V+caus I+repeat+fem+sg
27	پڑھاتے	<i>paRh-aa-tey</i>	paRhnaa+V+caus I+repeat+masc+pl
28	پڑھاتا	<i>paRh-aa-taa</i>	paRhnaa+V+caus I+repeat+masc+sg
29	پڑھائیں	<i>paRh-aa-eeN</i>	paRhnaa+V+caus I+perf+fem+pl
30	پڑھائی	<i>paRh-aa-ee</i>	paRhnaa+V+caus I+perf+fem+sg
31	پڑھانے	<i>paRh-aa-ey</i>	paRhnaa+V+caus I+perf+masc+pl
32	پڑھایا	<i>paRh-aa-yaa</i>	paRhnaa+V+caus I+perf+masc+sg
33	پڑھائیں	<i>paRh-aa-eyN</i>	paRhnaa+V+caus I+subj+1st+pl paRhnaa+V+caus I+subj+2nd+polite paRhnaa+V+caus I+subj+3rd+pl
34	پڑھاؤں	<i>paRh-aa-ooN</i>	paRhnaa+V+caus I+subj+1st+sg
35	پڑھانے	<i>paRh-aa-ey</i>	paRhnaa+V+caus I+subj+3rd+sg
36	پڑھاؤ	<i>paRh-aa-ao</i>	paRhnaa+V+caus I+subj+2nd+formal
37	پڑھائیے	<i>paRh-aa-eeay</i>	paRhnaa+V+caus I+subj+2nd+request
38	پڑھائیں	<i>paRh-aa-eyN</i>	paRhnaa+V+caus I+impr+2nd+polite
39	پڑھاؤ	<i>paRh-aa-ao</i>	paRhnaa+V+caus I+impr+2nd+formal
40	پڑھا	<i>paRh-aa</i>	paRhnaa+V+caus I+impr+2nd+frank
41	پڑھوا	<i>paRh-waa</i>	paRhnaa+V+root+caus2
42	پڑھوانا	<i>paRh-waa-naa</i>	paRhnaa+V+caus2+masc
43	پڑھوانی	<i>paRh-waa-nee</i>	paRhnaa+V+caus2+fem
44	پڑھوانے	<i>paRh-waa-ney</i>	paRhnaa+V+caus2+obl
45	پڑھوائیں	<i>paRh-waa-teeN</i>	paRhnaa+V+caus2+repeat+fem+pl
46	پڑھواتی	<i>paRh-waa-tee</i>	paRhnaa+V+caus2+repeat+fem+sg
47	پڑھواتے	<i>paRh-waa-tey</i>	paRhnaa+V+caus2+repeat+masc+pl
48	پڑھواتا	<i>paRh-waa-taa</i>	paRhnaa+V+caus2+repeat+masc+sg
49	پڑھوائیں	<i>paRh-waa-eeN</i>	paRhnaa+V+caus2+perf+fem+pl
50	پڑھوائی	<i>paRh-waa-ee</i>	paRhnaa+V+caus2+perf+fem+sg
51	پڑھوانے	<i>paRh-waa-ey</i>	paRhnaa+V+caus2+perf+masc+pl
52	پڑھوایا	<i>paRh-waa-yaa</i>	paRhnaa+V+caus2+perf+masc+sg
53	پڑھوائیں	<i>paRh-waa-eyN</i>	paRhnaa+V+caus2+subj+1st+pl paRhnaa+V+caus2+subj+2nd+polite paRhnaa+V+caus2+subj+3rd+pl
54	پڑھوں	<i>paRh-ooN</i>	paRhnaa+V+caus2+subj+1st+sg
55	پڑھوانے	<i>paRh-aa-ey</i>	paRhnaa+V+caus2+subj+3rd+sg
56	پڑھواؤ	<i>paRh-waa-ao</i>	paRhnaa+V+caus2+subj+2nd+formal
57	پڑھوائیے	<i>paRh-waa-eeay</i>	paRhnaa+V+caus2+subj+2nd+request
58	پڑھوائیں	<i>paRh-waa-eyN</i>	paRhnaa+V+caus2+impr+2nd+polite
59	پڑھواؤ	<i>paRh-waa-ao</i>	paRhnaa+V+caus2+impr+2nd+formal
60	پڑھوا	<i>paRh-waa</i>	paRhnaa+V+caus2+impr+2nd+frank

Figure 4.2 shows Acyclic Deterministic Finite State Automata (ADFSA) for few Urdu words having root forms: *hans*, *bol*, *paRh*, *deykh* and *xareed*. Each node