

Solutions to Exercise 1 - Alphabet

List all long simple vowels	आ ई ऊ ऋ
List all complex vowels (diphthongs)	ए ऐ ओ औ
List palatal semivowel	य
List cerebral sibilant	ष
List labial semivowel	व
List palatal sibilant	श
Within 5 X 5 grid of consonants:	
List all guttural aspirate letters	ख घ
List all soft palatal letters	ज झ ञ
List all unaspirate cerebral letters	ट ड ण
List all hard labial letters	प फ
List all hard aspirate letters	ख छ ठ थ फ
List all soft guttural letters	ग घ ङ
List all palatal aspirate letters	छ झ
List all hard cerebral letters	ट ठ
List all unaspirate labial letters	प ब म
List all soft unaspirate letters	ग ज ड द ब ड ञ ण न म

Letter	varga	hard/soft	aspirate/unaspirate
छ	palatal	hard	aspirate
झ	palatal	soft	aspirate
ट	cerebral	hard	unaspirate
ध	dental	soft	aspirate
फ	labial	hard	aspirate
ड	guttural	soft	unaspirate
व	labial semivowel	soft	unaspirate
ष	cerebral sibilant	hard	aspirate
घ	guttural	soft	aspirate
ण	cerebral	soft	unaspirate
ब	labial semivowel	soft	unaspirate
थ	dental	hard	aspirate
श	palatal sibilant	hard	aspirate
य	palatal semivowel	soft	unaspirate
ख	guttural	hard	aspirate
ड	cerebral	soft	unaspirate
भ	labial	soft	aspirate
स	dental sibilant	hard	aspirate

Conjunct Consonants

म = द् + म (note: virama or nether stroke required after first consonant)

ङ्क = ङ् + क

ञ्च = ञ् + च

क्त = क् + त

ष्ट = ष् + ट

ञ्ज = ञ् + ज

र्क = र् + क

त्त = त् + त

क्ष = श् + ल

द्य = द् + य

प्त = प् + त

म्र = म् + र

स्र = स् + र

ह्र = ह् + म

श्च = श् + च

ञ्ज = ञ् + ज

क्ष = क् + ष

द्भ = द् + भ