should cause the tissue to flutter a lot. This is a phonological phenomenon in English that is discussed in further detail in File 3.1.

File 2.3—Articulation: English Vowels

Exercises

14. Write the phonetic symbol representing each of the following sounds (don’t forget to use square brackets). The first one is given as an example:

Example: high back lax rounded vowel: [u]

a. high front tense unrounded vowel
b. mid back lax unrounded vowel
c. mid front lax unrounded vowel
d. low back lax unrounded vowel

15. Write the four-part articulatory descriptions for the vowel sounds represented by the following symbols: The first one is given as an example.

Example: [a]: mid, central, unrounded, and lax

a. [i]  d. [u]
b. [ʌ]  e. [æ]
c. [e]  f. [u]

Supplemental Exercises: Consonants and Vowels Combined

16. i. What is the difference between a consonant and a vowel?
   ii. Why can’t we use palatography to study vowel height?

17. Refer to the “Rhymes with Orange” cartoon at the beginning of this chapter. Write out the patient’s words using IPA. How did you decide which symbols to use? Do you think everyone would write it out the same way? Explain your answer.

18. Circle all the symbols below which represent voiced sounds:

   [s] [d] [g] [b] [t] [θ] [j]  [p]  [m] [n] [ŋ] [f] [v]  [h]  [w]  [l]

19. Give the conventional spelling for the following phonetically transcribed words. (Note that some may have more than one possible spelling.) The first one (a) is given as an example.

c. [siːl]      m. [kænʃəs]    w. [sæn]  gg. [dəʊ]
d. [wɔm]      n. [θaʊzənd]    x. [jʊlɪs]  hh. [ɡriːs]
e. [lut]    o. [fədʒ]     y. [kæld]  ii. [sɪvən]
g. [stɪf]      q. [kwaʊd]    aa. [kiːvə]  kk. [niːfn]
h. [kʊd]      r. [æt]     bb. [ʃout]  ll. [bæŋ]
i. [ʃidʒ]      s. [kæl]    cc. [kæŋkə]  mm. [eiəz]
20. Transcribe the following words. The first one (a) is given as an example.

\[
\begin{array}{llll}
\text{a. touch} & \text{p. punched} & \text{ee. leather} & \text{tt. cringe} \\
\text{b. woman} & \text{q. lather} & \text{ff. Godzilla} & \text{uu. pushed} \\
\text{c. women} & \text{r. Cairo} & \text{gg. raspberry} & \text{vv. isn't} \\
\text{d. flood} & \text{s. vision} & \text{hh. slyly} & \text{ww. rhythm} \\
\text{e. wrapped} & \text{t. price} & \text{ii. calves} & \text{xx. January} \\
\text{f. prays} & \text{u. monkey} & \text{jj. wove} & \text{yy. mother} \\
\text{g. brood} & \text{v. huge} & \text{kk. mustache} & \text{zz. pure} \\
\text{h. ghoul} & \text{w. cough} & \text{ll. carrot} & \text{aaa. February} \\
\text{i. torch} & \text{x. batch} & \text{mm. child} & \text{bbb. bathtub} \\
\text{j. stood} & \text{y. whale} & \text{nn. sugar} & \text{ccc. union} \\
\text{k. move} & \text{z. easy} & \text{oo. cane} & \text{ddd. hoodlum} \\
\text{l. breathe} & \text{aa. hour} & \text{pp. said} & \text{eee. icy} \\
\text{m. breath} & \text{bb. carton} & \text{qq. larynx} & \text{fff. July} \\
\text{n. lose} & \text{cc. though} & \text{rr. love} & \text{ggg. cookies} \\
\text{o. loose} & \text{dd. circus} & \text{ss. sewn} & \text{hhh. August}
\end{array}
\]

21. Correct the mistakes in the following phonetic transcriptions of English words, if there is a mistake.

\[
\begin{array}{llllll}
\text{a. [shut] shut} & \text{c. [fulu] follow} & \text{e. [left] left} & \text{g. [ðim] theme} & \text{i. [æn] rang} \\
\text{b. [swit] swift} & \text{d. [tæd] trod} & \text{f. [tfild] child} & \text{h. [vois] voice} & \text{j. [helθ] health}
\end{array}
\]

22. Read the phonetically transcribed sentences below and write them out in ordinary spelling. These transcriptions represent the pronunciation of a particular speaker on a particular occasion and thus may differ from your own pronunciation of the same passages in certain minor details, but this should not cause you any difficulty. These passages are from Woody Allen's book Without Feathers.

\[
\begin{array}{l}
\text{a. [dæb əskt hiz braid waz it waz laik in ði ədʒ wld nd hiz braid sed it waz nat ænlæk kliænd] ([dæb] “Dubbs” is a proper name.)} \\
\text{b. [ɪtʃ] næθɪnes iz oukei æz lɔŋ æz ʃi ʃi est fʃ it]}
\end{array}
\]

23. How loud are vowels and consonants? For this activity, you'll need two people and a large open space with either little background noise (like a quiet woods) or steady back-