## Answer Key

## Answer Key-Lesson 2

## Practice Exercise 2-1

1. The foundation word part of a medical term is called a root word.
2. The word part that is attached to the end of a term is a suffix.
3. In a medical term, a prefix is found at the beginning.
4. The word part that joins a root word and a suffix is a combining vowel.
5. The word part that is attached to the beginning of a term is a prefix.
6. In a medical term, a suffix is found at the end.
7. A suffix is attached to the word part called the root word or combining vowel.
8. A prefix is attached to the word part called the root word.
9. A combining vowel combines a root word and a suffix or another root word.
10. In the term trans/script/ion/ist, the word part/ist is a suffix.
11. In the term trans/script/ion, the word part trans/ is a prefix.
12. In the term bi/o/logy, the word part /o/ is called a combining vowel.

## Practice Exercise 2-2

Root Word
Meaning

1. append/o, appendic/o
2. arthr/o
appendix
joint
3. derm/o
4. muc/o
mucus
5. hydr/o
water, fluid
6. norm/o
proper, rule
7. neur/o
nerve
8. lith/o
stone
9. therm/o
heat
10. path/o
disease
11. pulmon/o
lung
12. enter/o
small intestine
13. bi/o
14. hepat/o
living thing, life
15. gen/o
16. my/o
muscle
17. tens/o
pressure
18. secti/o
cut into
19. ren/o
kidney
20. hem/o; hemat/o
blood

## Answer Key-Lesson 3

## Practice Exercise 3-1

Prefix Meaning

1. $\mathrm{a} /$
2. $\mathrm{ad} /$
3. ec/, ex/, ecto/, exo/
4. infra/
5. micro/
6. peri/
7. retro/
8. hypo/
9. dia/
10. tachy/
11. sub/
12. pre/
13. hemi/
14. anti/
15. en/, endo/
16. macro/
17. pan/
18. ab/
19. post/
20. de/
without, absent
toward, near
outside, outer
inferior to, below
small, tiny
around, surrounding
behind, back
decreased, below
through
faster than usual
under, inferior to
before
half
against, opposed
within
gross, large
all, every
away from
after, past
lessened, removed

## Practice Exercise 3-2

1. lectomy removal
2. /gram picture, record, tracing
3. /logy study of
4. list one who does
5. /megaly enlargement
6. /stasis control, hold in
7. /ic; /al; /ary; /tic; /ous; /ar; /eal; /iac; /ior; /ac relating to
8. /ium, /um structure
9. /meter distance measure, instrument to measure
10. /grade go
11. /scope instrument to see through or with
12. loid like
13. /emia, /hemia throughout the blood
14. /centesis withdrawing fluid
15. lopsy look at
16. /algia pain
17. /pathy disease process
18. losis pathologic condition
19. /itis inflammation
20. /ia condition

## Answer Key-Lesson 4

Practice Exercise 4-1

| 1. cardi/o/megaly | enlargement of the heart |
| :---: | :---: |
| 2. acr/o/megaly | enlargement of the extremities (tips) |
| 3. macro/gloss/ia | large (gross) tongue |
| 4. hist/o/logy | study of tissue |
| 5. para/ren/al | relating to beside (beyond) the kidney |
| 6. peri/ren/al | relating to around (surrounding) the kidney |
| 7. a/leuk/o/cyt/osis | condition of the absence of white cells |
| 8. thorac/o/centesis | withdrawing fluid from the chest |
| 9. gastr/ectomy | removal of the stomach |
| 10. hemi/hepat/ectomy | removal of half of the liver |
| 11. hem/o/stasis | control (hold in) blood |
| 12. neur/itis | inflammation of nerve(s) |
| 13. appendic/itis | inflammation of the appendix |
| 14. hepat/itis | inflammation of the liver |
| 15. therm/o/meter | instrument to measure heat |
| 16. bi/opsy | look at living thing (life) |
| 17. crani/um | (structure of the) skull |

## Practice Exercise 4-2

Word Part

1. carcin/o
2. ox/o
3. laryng/o
4. bi/
5. /genesis
creating
6. /malacia
7. syn/; sym/
softening
together with
8. gynec/o
female
9. sarc/o
10. vit/o
11. auto/
12. /drome
13. chem/o
14. con/
15. metal
16. ultra/
17. maxill/o
18. nect/o
19. /oma
tumor, mass
20. /blast
undifferentiated, original

## Practice Exercise 4-3

Divide

1. oste/o/malacia
2. sarc/oma
3. carcin/oma
4. con/nect
5. maxill/ary
6. laryng/itis
7. vit/al
8. cost/al
9. son/o/gram
10. carcin/o/genesis
11. chem/o/therapy
12. post/partum
13. maxill/o/plasty
14. crani/o/tome
15. hyper/trophy
16. klept/o/mania

Meaning
softening of bone
tumor or mass of nongland tissue
cancer tumor or mass of gland tissue
bind with
relating to the upper jaw
inflammation of the voicebox
relating to living, alive
relating to the rib(s)
picture or record of sound
creating cancer of gland tissue
treatment with chemicals (or drugs)
after labor (delivery)
restore the upper jaw by surgery
cutting instrument for the skull
increased growth by size or nourishment
obsession with stealing

## Answer Key-Lesson 5

## Practice Exercise 5-1

Medical Term Meaning

1. perirenal relating to surrounding the kidney
2. osteoarthritis inflammation of joint, bone
3. gastrotomy cut into or slice the stomach
4. carcinoid like cancer of gland tissue
5. sarcoid like nongland tissue
6. pulmonic relating to the lung
7. hepatic relating to the liver
8. macroglossal relating to a large tongue
9. pancytopenia lack of cells of all kinds
10. osteal relating to bone
11. mucous relating to mucus
12. thrombosis condition of having a clot

## Practice Exercise 5-2

1. Meaning: one who studies females

Word Parts
prefix:

| root(s): | gynec/o; $\log / \mathbf{o}$ |
| :--- | :--- |
| suffix: | list |
| Medical Term: | gynecologist |

2. Meaning: control blood

Word Parts
prefix:

| $\operatorname{root}(\mathrm{s}):$ | $\underline{\text { hem } / \mathbf{o}}$ |
| :--- | :--- |
| suffix: | /stasis |
| Medical Term: | hemostasis |

3. Meaning: relating to around the kidney

Word Parts
prefix: $\quad$ peri/
$\operatorname{root}(s): \quad$ ren/o
suffix: $\quad$ al
Medical Term: perirenal
4. Meaning: enlargement of the liver

Word Parts
prefix:

| $\operatorname{root}(s):$ | $\underline{\text { hepat/o }}$ |
| :--- | :--- |
| suffix: | /megaly |

Medical Term: hepatomegaly
5. Meaning: inflammation of vessels

Word Parts
prefix:
$\operatorname{root}(s): \quad$ angi/o
suffix: litis
Medical Term: angiitis
6. Meaning: inflammation of the appendix

Word Parts
prefix:

| $\operatorname{root}(\mathrm{s}):$ | appendic/o |
| :--- | :--- |
| suffix: | litis |
| Medical Term: | appendicitis |

7. Meaning: removal of the spleen

Word Parts
prefix:

| $\operatorname{root}(\mathrm{s}):$ | splen/o |
| :--- | :--- |
| suffix: | lectomy |
| Medical Term: | splenectomy |

8. Meaning: lack of cells of all kinds

Word Parts
prefix: $\quad$ pan/
$\operatorname{root}(s): \quad$ cyt/o
suffix: $\quad$ /penia
Medical Term: pancytopenia

## Answer Key-Lesson 6

## Practice Exercise 6-1

Divide the Term Meaning

1. chem/ist
2. crani/o/tomy cut into the skull
3. laryng/ectomy
4. endo/derm
5. peri/hepat/ic
6. poly/gastr/ia
7. thromb/itis
8. sub/hepat/ic
9. retro/gastr/ic
10. myel/oid
11. my/o/pathy
12. ven/ous
13. nat/al
14. klept/o/maniac
15. neur/osis
16. electr/ic
17. arteri/al
18. cyst/ic
one who specializes in chemicals
remove the voicebox
within the skin or inside tissue
relating to around the liver
condition of many stomachs
inflammation of a clot
relating to under the liver
relating to behind the stomach
like the marrow or spinal cord
muscle disease
relating to a vein or the veins
relating to birth
relating to obsessive stealing
condition of the nerves
relating to electrical activity
relating to an artery
relating to a sac of fluid/bladder

## Practice Exercise 6-2

Word Part
Meaning

1. lapar/o
abdomen
2. pneum/o, pneumon/o air, gas, lung air sacs
3. ana/ positive, up
4. /physis
grow
5. /pnea breathing
6. /rrhea
flow
7. eu/ normal, even, good
8. supra/ above, superior to
9. semi/; hemi/ half
10. /ptosis drooped, slipped down
11. pro/; ante/ before
12. pseudo/ false
13. tom/o cut, slice or a hole
14. trache/o windpipe
15. tonsill/o tonsils
16. /lysis break down, dissolve
17. dys/ bad, labored
18. rhin/o nose
19. /phoria bear
20. /crine
secrete

## Answer Key-Lesson 7

## Practice Exercise 7-1

| Singular | English Plural |
| :--- | :--- |
| 1. | therapy |
| 2. | dermatologist |
| 3. | dermatologists |

## Practice Exercise 7-2

Singular Medical Plural

1. synthesis syntheses
2. larynx larynges
3. carcinoma carcinomata
4. thorax thoraces
5. cardium cardia
6. cranium crania
7. mucus mucus*
8. virus viruses*
9. ganglion ganglia
10. index indices
*Please note that these terms don't follow the medical plural rule.

## Practice Exercise 7-3

Divide the Term Meaning

1. necr/opsy look at the dead (death)
2. thyr/oid like a shield
3. eu/phoria bear evenly, well
4. ot/ic relating to the ear
5. ophthalm/ic relating to the eye
6. nephr/ic relating to the kidney
7. trache/o/malacia softening of the windpipe
8. a/pnea absence of breathing
9. per/cutane/ous relating to through the skin surface
10. vertebr/al relating to the back bones
11. tox/ic relating to poison
12. phag/o/cyt/ic relating to cells that swallow
13. chondr/al relating to cartilage
14. cervic/al relating to the neck
15. necr/o/tic relating a condition of death
16. gnos/tic relating to a condition of knowledge

## Practice Exercise 7-4

1. Meaning: cell that swallows

Word Parts
prefix:
root(s):
suffix:
Medical Term:
phag/o
/cyte
phagocyte
2. Meaning:

Word Parts
prefix:
$\operatorname{root}(s)$ :
suffix:
Medical Term:
morph/o
/logy
morphology
3. Meaning: false pregnancy

Word Parts
prefix:
root(s):
suffix:
Medical Term:
4. Meaning:

Word Parts
prefix:
$\operatorname{root}(s): \quad$ cyst/o
suffix: /cele
Medical Term: cystocele
5. Meaning: restore the nose by surgery

Word Parts
prefix:
$\operatorname{root}(s)$ rhin/o
suffix: /plasty
Medical Term: rhinoplasty
6. Meaning: secrete within

Word Parts
prefix: endo/
root(s):
suffix: /crine
Medical Term: endocrine
7. Meaning: remove the tonsils

Word Parts
prefix:
$\operatorname{root}(s): \quad$ tonsill/o
suffix: /ectomy
Medical Term: tonsillectomy
8. Meaning: flow through

Word Parts
prefix:
root(s):
suffix: /rrhea
Medical Term: diarrhea
9. Meaning: study of nature or natural things

Word Parts
prefix:
root(s): physi/o
suffix: /logy
Medical Term: physiology

## Answer Key-Lesson 8

## Practice Exercise 8-1

|  | Eponym | Dictionary Word |
| :---: | :---: | :---: |
|  | Epstein-Barr virus | virus |
|  | Halsted('s) incision | incision |
|  | Legg('s) disease | disease |
|  | Miller-Abbott tube | tube |
|  | Pauly('s) point | point |
|  | Hodgkin('s) disease | disease |
|  | Hodgkin('s) sarcoma | sarcoma |
|  | Gordon('s) reflex | reflex |
|  | Laennec('s) cirrhosis | cirrhosis |
|  | Cantor tube | tube |
|  | Kaposi('s) sarcoma | sarcoma |
|  | Babkin reflex | reflex |
|  | McBurney('s) point | point |
|  | Colles(') fracture | fracture |
|  | Cooley('s) anemia | anemia |
|  | West Nile virus | virus |
|  | Erb('s) palsy | palsy |
|  | Charcot('s) syndrome | syndrome |

18. Charcot('s) syndrome syndrome

## Practice Exercise 8-2

1. disease
2. palsy
3. anemia
4. fracture
5. point
6. incision
7. reflex
8. tube
9. syndrome
10. sarcoma
11. respiration
12. virus
13. cirrhosis

Alzheimer('s), Hodgkin('s), Hodgson('s), Hirschsprung('s), Legg('s)
Bell('s), Erb('s), Klumpke('s), Todd('s)
Cooley('s), Lederer('s), Dresbach('s), Chvostek('s)
Potts, Colles('), Monteggia('s), Galeazzi('s), Jefferson('s)
McBurney('s), Brewer('s), Addison('s), Pauly('s), Mackenzie('s).
Roux-en-Y, Pfannenstiel('s), Halsted('s), Rollet('s), McBurney('s)
Babinski('s), Gordon('s), Babkin, Barkman('s), Brudzinski('s)
Miller-Abbott, Kelly('s), Mueller-Frazier, Ochsner('s), Cantor
Cushing('s), Curtius('), Charcot('s), Cornelia de Lange('s), Leriche('s)
Hodgkin('s), Kaposi('s), Kupffer cell, Abernethy('s), pseudo-Kaposi
Corrigan('s), Cheyne-Stokes, Austin Flint, Kussmaul('s)
Epstein-Barr, Brunhilde, West Nile, Powassan, Mengo
Laënnec('s), Hanot('s), Budd('s), Charcot('s), Todd('s)

## Practice Exercise 8-3

1. blood urea nitrogen BUN
2. white blood count WBC
3. Venereal Disease Research Laboratory VDRL
4. rheumatoid arthritis ..... RA
5. human immunodeficiency virus ..... HIV
6. Physicians' Desk Reference ..... PDR
7. (The) pupils (are) equal, round (and)reactive (to) light (and) accommodation. PERRLA
8. electr/o/encephal/o/gram EEG
9. head, eyes, ears, nose (and) throat
HEENT
10. intra/muscular ..... IM

## Practice Exercise 8-4

Acronym

1. no significant disease NSD
2. nothing by mouth NBM
3. nil per os (means nothing by mouth) NPO
4. milk of magnesia MOM
5. muscular dystrophy MD
6. multiple sclerosis MS
7. intensive care unit ICU
8. lactated Ringer's solution LRS
9. leave of absence LOA
10. high blood pressure HBP
11. for your information FYI
12. arteriovenous AV
13. sexually transmitted disease STD
14. below knee amputation BKA
15. hypertension HTN

## Answer Key-Lesson 9

## Practice Exercise 9-1

1. The patient was seen today and his $\mathrm{CO}_{2}$ was 33 .

> carbon dioxide
2. His medications were changed to Lasix 40 mg p.o. b.i.d.
milligrams twice a day by mouth
3. $\mathrm{O}_{2} 2 \mathrm{~L}$ per nasal prongs begun with improvement.

## Oxygen

liters
4. Patient is n.p.o. until the GB study is completed.
nothing by mouth
gallbladder
5. ABDOMEN: NBS. No hepatomegaly or splenomegaly.

Normal bowel sounds
6. Laboratory studies confirm the diagnosis of EBV.

## Epstein-Barr virus

7. U/A: Sp. gr. 1.023. No white cells in the urine.

## Urinalysis

Specific gravity
8. Normal TPR.

## temperature, pulse and respiration

9. The leukemia responds to bleomycin 15 U and IM injections. units intramuscular
10. R/O osteoarthritis. Repeat CBC. Last specimen q.n.s.

Rule out complete blood count quantity not sufficient
11. Order IV fluids stat. I will notify LMD of the patient's condition.
intravenous

## local doctor

at once
12. The neurologic examination showed a decrease in the DTRs.
deep tendon reflexes
13. The mass measured $1 \mathrm{~cm} \times 7 \mathrm{~mm}$.
centimeter millimeters
14. The specimen was examined by EM. NSD.
electron microscope No serious disease
15. The patient is a $72-\mathrm{YO}$ white male in no obvious distress.
-year-old
Practice Exercise 9-2

Medical Term

1. d-siblings, brothers and sisters
sibs
2. $\mathbf{i}$ - preparation prep
3. a-medications meds
4. $\mathbf{e}-$ abortion
5. $\mathbf{k}$-examination
exam
6. c-pathology
7. $\mathbf{j}$ - appendectomy, appendicitis
8. $f$ - primipara, one birth primip
9. $\mathbf{b}$ - nullipara, no births nullip
10. $\mathbf{g}$ - subcutaneous subcue
11. $\mathbf{h}$ - temperature temp

## Practice Exercise 9-3

1. The patient was given Compazine fifteen mg p.r.n. $\mathbf{1 5}$
2. Dr. Jones' office is at 323 twenty seventh Street. 27th
3. The final count was three needles and twenty sponges. $\mathbf{3} 20$
4. The skin incision was closed with five-0 silk suture. 5-0 (not 00000)
5. Urinalysis: four + protein, trace sugar, many white cells. 4+
6. The kidney measured ten x six cm .106
7. Cranial nerves three through eleven were examined. III, XI or $\mathbf{3}, \mathbf{1 1}$
8. Exploratory surgery showed the cancer was stage four. IV
9. The creatinine was point five. $\mathbf{0 . 5}$
10. The specific gravity was one point oh three two. $\mathbf{1 . 0 3 2}$
11. He had burns over one-third of his body. one-third
12. Take one and one-half the regular amount. $\mathbf{1 - 1 / 2}$ or $11 / 2$
13. Give digitalis one-half gr every 4 hours. $\mathbf{0 . 5}$

## Practice Exercise 9-4

1. Temperature ${ }^{\circ} \mathrm{C}$ or ${ }^{\circ} \mathbf{F}$
2. Number \#
3. Sutures -
4. Over (blood pressure)/
5. And (between capitals) \&
6. Minus -
7. Vision /
8. Ratio :
9. The patient's blood pressure was $\mathbf{1 1 0 / 9 0}$.
10. Temperature is $\mathbf{9 9}^{\circ} \mathbf{F}$.

## 11. Weight $\mathbf{1 8 5}$ pounds

12. The incision was closed with $\mathbf{2 - 0}$ or $\mathbf{0 0}$ silk sutures.

13. PAST MEDICAL HISTORY: D\&C. A\&P repair. 1 2
14. The pedal reflexes were $\mathbf{1 +}$.
15. The A/G ratio was $\mathbf{1 : 1 . 9}$.
16. The blood sugar range was $\mathbf{4 0 - 6 0}$.
17. VISION: 20/25.
[^0]
## Answer Key-Lesson 10

## Practice Exercise 10-1

Check your underlined letters or words against the bolded letters or words in the following.

## CHIEF COMPLAINT

The patient is an elderly white male with far advanced carcinoma of the lung. He has advanced metastases to the brain and has deteriorated.

## PAST HISTORY

Noncontributory.

## ALLERGIES: ALLERGIC TO PENICILLIN

## PHYSICAL EXAMINATION <br> HEENT: PERRLA. Sclerae clear.

CARDIAC: Clear to auscultation.
ABDOMEN: NBS. Liver and spleen enlarged.

## ASSESSMENT

1. Hepatosplenomegaly.
2. Bronchogenic carcinoma, advanced.

## PLAN

Refer to neurology department for Dr. Jones to evaluate. Continue treatment with Valium 25 mg and aspirin 325 mg .

## Practice Exercise 10-2

Rule

1. PLAN
2. CBC. ..... 53
3. Urinalysis. 3. Admit to hospital.
4. The patient had no pain or tenderness. ..... 52
5. Chest film normal. CBC normal. Urinalysis normal. ..... 52
6. The patient had a positive VDRL three months ago. ..... 52
7. DISCHARGE DIAGNOSIS
8. Microcephaly. ..... 53
9. Tracheomalacia. ..... 53
10. Hepatomegaly. ..... 53
11. Tell the patient that t.i.d. means three times a day. ..... 56, 52
12. Take 15 mg p.o. p.r.n. ..... 56
13. The chemical symbol for water is $\mathrm{H}_{2} \mathrm{O}$. ..... 52, 55
14. NaCl is the chemical symbol for salt. ..... 52, 55
15. The UCLA team ordered an ELISA. ..... 52, 55

## Practice Exercise 10-3

## Rule

1. There is weakness in both arms, left greater than right. ..... 59
2. The patient is oriented to time, place and person. ..... 60
3. There is redness, swelling and loss of motion. ..... 60
4. Colles(') fracture is usually seen in adults. ..... 68
(Colles is also acceptable per $A H D I$.)
5. Of course, call me if you see Cheyne-Stokes respiration. ..... 61
6. I will use either \#'s 4-0 or 5-0 silk sutures. ..... 70
7. The patient's lab results are negative. ..... 66
8. The platelet count was 450,000 . ..... 62
9. For example, there should be a good result in one week. ..... 61
10. No shortness of breath, cardiac or breast enlargement. ..... 60
11. The patient experienced short, labored, rattling respiration. ..... 57

## Practice Exercise 10-4

1. The patient has a Smith-Jones valve in her heart. She was placed on medications as follows: Coumadin, digoxin and Lasix.

Rules 76, 52, 72, 60, 60, 52
2. The titer was $3: 4$. This is two times greater than normal.

Rules 73, 52, 52

## 3. DISCHARGE DIAGNOSIS

1. Congestive heart failure.
2. Atrial fibrillation.
3. Chronic airway obstruction.

Rules 71, 53, 52
4. There was swelling of both hands, the right greater than the left. Increase Lasix to 80 mg p.o. daily.

Rules 59, 52, 56, 52
5. ABDOMEN: The abdomen was flat, nontender, soft. The liver, spleen and kidneys are not enlarged. NBS.

Rules 71, 60, 60, 52, 60, 52, 52
6. At 5:00 p.m., the patient arrived at the hospital, i.e., at the emergency department. (ie is also acceptable per $A H D I$.)

Rules 73, 56, 61, 58, 52
7. Urinalysis: Sp. gr. 1.020, white cells negative, pH 7.4.

Rules 71, 60, 60, 52


[^0]:    ${ }^{1} \mathrm{D} \& \mathrm{C}$ is the acronym for dilation and curettage.
    ${ }^{2}$ A\&P is the acronym for anterior and posterior and refers specifically to the vaginal walls here.

