

**ANSWER KEY**  
**FOR**

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**A Systematic Approach to A.D.A.M.  
Comprehensive: A Student Workbook**

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## CHAPTER 1

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### EXERCISE 1.6 SELF-TEST

Q1:	EXPAND
Q2:	LIBRARY
Q3:	OPTIONS
Q4:	DEPTH BAR
Q5:	LABELS
Q6:	BOX CUT
Q7:	IDENTIFY
Q8:	SELECT THE IDENTIFY BUTTON OVER THE SELECTED BONE, HOLD THE MOUSE DOWN TO OBTAIN THE SUBMENU AND SELECT HISTOLOGY
Q9:	ZOOM TOOL AND ZOOM IN
Q10:	ZOOM TOOL AND SELECTED MAGNIFYING GLASS
Q11:	SELECT FIND AND TYPE IN THE NAME OF THE STRUCTURE
Q12:	STRUCTURE LIST WINDOW
Q13:	LIBRARY
Q14:	LIST OPTIONS
Q15:	SUPPLEMENTS

## CHAPTER 2

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### EXERCISE 2.4

LABEL	IDENTIFIED AS	LABEL	IDENTIFIED AS
A	JUGULAR NOTCH	E	COSTAL CARTILAGE
B	CLAVICULAR NOTCH	F	XIPHOID PROCESS
C	MANUBRIUM	G	RIB
D	BODY OF STERNUM		

### EXERCISE 2.8

LABEL	IDENTIFIED AS
A	SCAPHOID
B	LUNATE
C	PISIFORM
D	HAMATE
E	TRAPEZIUM
F	TRAPEZOID
G	CAPITATE
H	METACARPAL III
I	PROXIMAL PHALANX III

**EXERCISE 2.10**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	ILIAC CREST
B	ILIUM
C	POSTERIOR SUPERIOR ILIAC SPINE
D	POSTERIOR INFERIOR ILIAC SPINE
E	LATERAL PORTION OF ILIUM
F	ISCHIAL SPINE
G	BODY OF PUBIS
H	OBTURATOR FORAMEN
I	ISCHIAL TUBEROSITY

**EXERCISE 2.15**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	TALUS
B	NAVICULAR
C	MEDIAL CUNEIFORM
D	METATARSAL I
E	CALCANEUS
F	CUBOID
G	LATERAL CUNEIFORM
H	INTERMEDIATE CUNEIFORM
I	MIDDLE PHALANX II

**EXERCISE 2.16  
SELF-TEST**

	<b>STRUCTURE</b>	<b>LOCATED ON THIS BONE</b>
1.	ACETABULUM	OS COXA
2.	ACROMION	SCAPULA
3.	ANTERIOR SUPERIOR SPINE	ILIUM
4.	CALCANEUS	FOOT/TARSALS
5.	EXTERNAL ACOUSTIC MEATUS	TEMPORAL
6.	FORAMEN MAGNUM	OCCIPITAL
7.	GLENOID FOSSA	TEMPORAL BONE AND SCAPULA
8.	GLUTEAL LINE	FEMUR
9.	GREATER SCIATIC NOTCH	OS COXA
10.	GREATER TUBERCLE	HUMERUS
11.	GREATER WING	SPHENOID
12.	HAMATE	CARPALS
13.	INFRAORBITAL FORAMEN	MAXILLA
14.	INFRASPINOUS FOSSA	SCAPULA
15.	INTERCONDYLAR EMINENCE	TIBIA
16.	JUGULAR NOTCH	STERNUM
17.	LATERAL MALLEOLUS	FIBULA
18.	LINEA ASPERA	FEMUR
19.	MASTOID PROCESS	TEMPORAL
20.	MEDIAL CONDYLE	HUMERUS AND FEMUR

21.	MEDIAL MALLEOLUS	TIBIA
22.	MENTAL FORAMEN	MANDIBLE
23.	OBTURATOR FORAMEN	OS COXA
24.	ODONTOID PROCESS (DENS)	AXIS
25.	SELLA TURCICA	SPHENOID
26.	SUPRAORBITAL MARGIN	FRONTAL
27.	TRANSVERSE FORAMINA	CERVICAL VERTEBRAE
28.	TRANSVERSE PROCESS	VERTEBRAE
29.	XIPHOID PROCESS	STERNUM

## CHAPTER 3

### EXERCISE 3.1

	ORIGIN	INSERTION	ACTION(S)
<input type="checkbox"/> EPICRANIAL	GALEA APONEUROTICA	SUPRAORBITAL SKIN	DRAWS SCALP OUT, ELEVATES EYEBROWS
<input type="checkbox"/> ORBICULARIS OCULI	MEDIAL WALL OF ORBIT	CIRCULAR PATH AROUND ORBIT	CLOSES EYE
<input type="checkbox"/> ORBICULARIS ORIS	MUSCLE FIBERS AROUND MOUTH	SKIN AT MOUTH CORNERS	CLOSES AND COMPRESSES LIPS
<input type="checkbox"/> STERNOCLEIDOMASTOID	STERNUM AND CLAVICLE	MASTOID PROCESS	DRAWS HEAD FORWARD
<input type="checkbox"/> ZYGOMATICUS	ZYGOMATIC BONE	SKIN AT ANGLE OF MOUTH	DRAWS MOUTH UPWARD

### EXERCISE 3.2

	ORIGIN	INSERTION	ACTION(S)
<input type="checkbox"/> FRONTALIS	GALEA APONEUROTICA	SUPRAORBITAL MARGIN OF SKIN	RAISES EYEBROWS, DRAWS SCALP ANTERIORLY
<input type="checkbox"/> OCCIPITALIS	OCCIPITAL AND MASTOID BONES	GALEA APONEUROTICA	DRAWS SCALP POSTERIORLY
<input type="checkbox"/> STERNOCLEIDOMASTOID	STERNUM AND CLAVICLE	MASTOID PROCESS	DRAWS HEAD FORWARD
<input type="checkbox"/> TEMPORALIS	PARIETAL BONE	CORONOID PROCESS AND RAMUS OF MANDIBLE	ELEVATES AND RETRACTS MANDIBLE
<input type="checkbox"/> TRAPEZIUS	OCCIPITAL BONE, CERVICAL 1-7, THORACIC 1-12	CLAVICLE, ACROMION, AND SCAPULAR SPINE	ELEVATES AND DEPRESSES CLAVICLE AND SCAPULA, ROTATES CLAVICLE ANTERIORLY

### EXERCISE 3.3

	ORIGIN	INSERTION	ACTION(S)
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<input type="checkbox"/> OCCIPITALIS	OCCIPITAL AND MASTOID BONES	GALEA APONEUROTICA	DRAWS SCALP POSTERIORLY
<input type="checkbox"/> SPLENIUS CAPITIS	SPINOUS PROCESSES OF C1-7, T1-4	OCCIPITAL BONE AND MASTOID PROCESS	EXTENDS HEAD
<input type="checkbox"/> TEMPORALIS	PARIETAL BONE	CORONOID PROCESS AND RAMUS OF MANDIBLE	ELEVATES AND RETRACTS MANDIBLE

### EXERCISE 3.4

LABEL	IDENTIFIED AS	ACTION(S)
A	TRAPEZIUS	ELEVATES CLAVICLE, ADDUCTS AND ROTATES SCAPULA
B	DELTOID	ABDUCTS, FLEXES, EXTENDS, AND MEDIALY ROTATES ARM
D	PECTORALIS MAJOR	FLEXES, ADDUCTS, AND ROTATES ARM
E	EXTERNAL OBLIQUE	COMPRESSES ABDOMEN
F	SUBSCAPULARIS	ROTATES ARM MEDIALY
G	SERRATUS ANTERIOR	ROTATES SCAPULA SUPERIORLY AND ANTERIORLY
H	EXTERNAL INTERCOSTALS	ELEVATE RIBS AT INSPIRATION

### EXERCISE 3.5

LABEL	IDENTIFIED AS	ACTION(S)
A	TRAPEZIUS	ELEVATES CLAVICLE, ADDUCTS AND ROTATES SCAPULA
B	DELTOID	ABDUCTS, FLEXES, EXTENDS, AND LATERALLY ROTATES ARM
C	DELTOID	ABDUCTS, FLEXES, EXTENDS, AND LATERALLY ROTATES ARM
D	TRAPEZIUS	ELEVATES CLAVICLE, ADDUCTS AND ROTATES SCAPULA
E	EXTENSOR DIGITORUM	EXTENDS PHALANGES
F	TRICEPS BRACHII - LONG HEAD	EXTENDS FOREARM AND ARM
G	EXTERNAL ABDOMINAL OBLIQUE	COMPRESSES ABDOMEN
H	INFRASPINATUS	ROTATES AND LATERALLY ADDUCTS ARM
I	TERES MAJOR	EXTENDS, ADDUCTS, AND MEDIALY ROTATES ARM
J	TRICEPS BRACHII - LATERAL HEAD	EXTENDS FOREARM AND ARM
K	LATISSIMUS DORSI	EXTENDS, ADDUCTS, AND ROTATES ARM MEDIALY
L	EXTERNAL ABDOMINAL OBLIQUE	COMPRESSES ABDOMEN

### EXERCISE 3.6

	ORIGIN	INSERTION	ACTION(S)
<input type="checkbox"/> DELTOID	ACROMIAL END OF	DELTOID	ABDUCTS, FLEXES,

	CLAVICLE AND ACROMION	TUBEROSITY	EXTENDS, AND MEDIALY ROTATES ARM
<input type="checkbox"/> EXTERNAL INTERCOSTALS	INFERIOR BORDER OF RIBS ABOVE	SUPERIOR BORDER OF RIBS BELOW	ELEVATES RIBS AT INSPIRATION
<input type="checkbox"/> EXTERNAL OBLIQUE	INFERIOR EIGHT RIBS	ILIAC CREST AND LINEA ALBA	COMPRESSES ABDOMEN
<input type="checkbox"/> INFRASPINATUS	INFRASPINOUS FOSSA	GREATER TUBERCLE	ADDUCTS AND ROTATES ARM LATERALLY
<input type="checkbox"/> LATISSIMUS DORSI	INFERIOR T1-12; LUMBAR 1-5; SACRUM AND ILIUM	INTERTUBERCULAR SULCUS	EXTENDS, ADDUCTS AND ROTATES ARM MEDIALY
<input type="checkbox"/> PECTORALIS MAJOR	CLAVICLE, STERNUM AND 2ND-6TH RIBS	GREATER TUBERCLE AND INTERTUBERCULAR SULCUS	FLEXES, ADDUCTS, AND ROTATES ARM
<input type="checkbox"/> SERRATUS ANTERIOR	SUPERIOR EIGHT RIBS	VERTEBRAL BORDER AND INFERIOR ANGLE OF SCAPULA	ROTATES SCAPULA ANTERIORLY AND SUPERIORLY
<input type="checkbox"/> STERNOCLEIDOMASTOID	STERNUM AND CLAVICLE	MASTOID PROCESS	DRAWS HEAD FORWARD
<input type="checkbox"/> TERES MAJOR	INFERIOR ANGLE OF SCAPULA	INTERTUBERCULAR SULCUS	EXTENDS, ADDUCTS, AND MEDIALY ROTATES ARM
<input type="checkbox"/> TERES MINOR	INFERIOR LATERAL BORDER OF SCAPULA	GREATER TUBERCLE	ROTATES ARM LATERALLY; EXTENDS, ADDUCTS ARM
<input type="checkbox"/> TRAPEZIUS	OCCIPITAL BONE, C1-7; T1-12	CLAVICLE, ACROMION OF SCAPULA	ELEVATES CLAVICLE, ADDUCTS AND ROTATES SCAPULA
<input type="checkbox"/> TRICEPS BRACHII – LONG HEAD	INFRAGLENOID TUBERCLE OF SCAPULA	OLECRANON OF ULNA	EXTENDS FOREARM AND ARM

**EXERCISE 3.7**

	<b>ORIGIN</b>	<b>INSERTION</b>	<b>ACTION(S)</b>
<input type="checkbox"/> BICEPS BRACHII	SCAPULA	RADIAL TUBEROSITY	FLEXES FOREARM AND ARM
<input type="checkbox"/> BRACHIALIS	DISTAL ANTERIOR SURFACE OF HUMERUS	ULNAR TUBEROSITY	FLEXES FOREARM
<input type="checkbox"/> BRACHIORADIALIS	MEDIAL/LATERAL BORDER OF DISTAL HUMERUS	SUPERIOR TO STYLOID PROCESS OF RADIUS	FLEXES FOREARM
<input type="checkbox"/> DELTOID	CLAVICLE AND SCAPULA	DELTOID TUBEROSITY	ABDUCTS, FLEXES, AND EXTENDS FOREARM
<input type="checkbox"/> EXTENSOR CARPI RADIALIS	LATERAL EPICONDYLE	2ND METACARPAL	EXTENDS AND ABDUCTS WRIST

<input type="checkbox"/> EXTENSOR CARPI ULNARIS	LATERAL EPICONDYLE	5TH METACARPAL	EXTENDS AND ADDUCTS WRIST
<input type="checkbox"/> EXTENSOR DIGITORUM	LATERAL EPICONDYLE	2ND–5TH DISTAL AND MIDDLE PHALANGES	EXTENDS PHALANGES
<input type="checkbox"/> FLEXOR CARPI RADIALIS	MEDIAL EPICONDYLE OF HUMERUS	2ND–3RD METACARPAL	FLEXES AND ABDUCTS WRIST
<input type="checkbox"/> FLEXOR CARPI ULNARIS	MEDIAL EPICONDYLE, SUPERIOR BORDER OF ULNA	PISIFORMIS, HAMATE AND 5TH METACARPAL	FLEXES AND ADDUCTS WRIST
<input type="checkbox"/> FLEXOR DIGITORUM SUPERFICIALIS	MEDIAL EPICONDYLE	MIDDLE PHALANGES	FLEXES MIDDLE PHALANGES
<input type="checkbox"/> PALMARIS LONGUS	MEDIAL EPICONDYLE	FLEXOR RETINACULUM	WEAKLY FLEXES WRIST
<input type="checkbox"/> PRONATOR TERES	MEDIAL EPICONDYLE	MID-LATERAL SURFACE OF RADIUS	PRONATES FOREARM
<input type="checkbox"/> TRICEPS BRACHII - LATERAL HEAD	LATERAL/POSTERIOR SURFACE OF HUMERUS	OLECRANON OF ULNA	FLEXES FOREARM AND ARM
<input type="checkbox"/> TRICEPS BRACHII - LONG HEAD	INFRAGLENOID TUBEROSITY	OLECRANON OF ULNA	FLEXES FOREARM AND ARM
<input type="checkbox"/> TRICEPS BRACHII - MEDIAL HEAD	POSTERIOR HUMERAL SURFACE	OLECRANON OF ULNA	FLEXES FOREARM AND ARM

### EXERCISE 3.8

LABEL	IDENTIFIED AS	ACTION(S)
A	GLUTEUS MAXIMUS	EXTENDS AND ROTATES THIGH Laterally
B	GLUTEUS MAXIMUS	EXTENDS AND ROTATES THIGH Medially
C	VASTUS LATERALIS	EXTENDS LEG
D	BICEPS FEMORIS - LONG HEAD	FLEXES LEG AND EXTENDS THIGH
E	BICEPS FEMORIS - SHORT HEAD	FLEXES LEG AND EXTENDS THIGH
F	GRACILIS	ADDUCTS AND FLEXES THIGH
G	SEMITENDINOSUS	FLEXES LEG AND EXTENDS THIGH
H	SEMIMEMBRANOSUS	FLEXES LEG AND EXTENDS THIGH

### EXERCISE 3.9

	ORIGIN	INSERTION	ACTION(S)
<input type="checkbox"/> ADDUCTOR BREVIS	INFERIOR RAMUS OF PUBIS	SUPERIOR HALF OF LINEA ASPERA	ADDUCTS, Medially ROTATES, AND FLEXES THIGH
<input type="checkbox"/> ADDUCTOR LONGUS	PUBIC CREST AND SYMPHYSIS	LINEA ASPERA	ADDUCTS, Medially ROTATES, AND FLEXES THIGH

<input type="checkbox"/> ADDUCTOR MAGNUS	INFERIOR RAMUS OF PUBIS	LINEA ASPERA	ADDUCTS, MEDIAALLY ROTATES, AND FLEXES THIGH
<input type="checkbox"/> COCCYGEUS	ISCHIAL SPINE	INFERIOR SACRUM	SUPPORTS PELVIC FLOOR
<input type="checkbox"/> GRACILIS	PUBIS AND SYMPHYSIS	MEDIAL TIBIAL SURFACE	ADDUCTS AND FLEXES THIGH
<input type="checkbox"/> ILIACUS	ILIAC FOSSA	TENDON PSOAS	FLEXES AND ROTATES THIGH
<input type="checkbox"/> LEVATOR ANI	PUBIS AND ISCHIAL SPINE	URETHRA AND ANAL CANAL	SUPPORTS PELVIC FLOOR, DRAWS ANUS TO BODY
<input type="checkbox"/> OBTURATOR EXTERNIS	OUTER SURFACE OF OBTURATOR	TROCHANTERIC FOSSA	ROTATES THIGH Laterally
<input type="checkbox"/> PECTINEUS	SUPERIOR RAMUS OF PUBIS	PECTINEAL LINE OF FEMUR	FLEXES AND ADDUCTS THIGH
<input type="checkbox"/> PIRIFORMIS	ANTERIOR SACRUM	GREATER TROCHANTER	ROTATES THIGH Laterally
<input type="checkbox"/> PSOAS	L1-5 BODIES	LESSER TROCHANTER	FLEXES AND ROTATES THIGH Laterally
<input type="checkbox"/> RECTUS FEMORIS	ANTERIOR INFERIOR ILIAC SPINE	FEMUR	EXTENDS LEG, FLEXES THIGH
<input type="checkbox"/> SARTORIUS	ANTERIOR SUPERIOR ILIAC SPINE	MEDIAL SURFACE OF TIBIA	FLEXES LEG AND THIGH
<input type="checkbox"/> TENSOR FASCIA LATAE	ILIAC CREST	TIBIA	FLEXES AND ABDUCTS THIGH
<input type="checkbox"/> VASTUS INTERMEDIUS	ANTERIOR/LATERAL SURFACE OF FEMUR	PATELLA/TIBIAL TUBEROSITY	EXTENDS LEG
<input type="checkbox"/> VASTUS LATERALIS	GREATER TROCHANTER/LINEA ASPERA	PATELLA/TIBIAL TUBEROSITY	EXTENDS LEG
<input type="checkbox"/> VASTUS MEDIALIS	LINEA ASPERA	PATELLA/TIBIA	EXTENDS LEG

**EXERCISE 3.10**

LABEL	IDENTIFIED AS	ACTION(S)
A	PERONEUS LONGUS	PLANTAR FLEXES AND EVERTS FOOT
B	TIBIALIS ANTERIOR	DORSIFLEXES AND INVERTS FOOT
C	EXTENSOR DIGITORUM	EXTENDS PHALANGES
D	GASTROCNEMIUS	PLANTAR FLEXES FOOT/FLEXES LEG
E	SOLEUS	PLANTAR FLEXES FOOT

**EXERCISE 3.11**

	ORIGIN	INSERTION	ACTION(S)
<input type="checkbox"/> FLEXOR HALLUCIS	INFERIOR b OF TIBIA	DISTAL PHALANGES OF GREAT TOE	PLANTAR FLEXES AND INVERTS FOOT
<input type="checkbox"/> GASTROCNEMIUS	LATERAL/MEDIAL	CALCANEUS	PLANTAR FLEXES

	CONDYLE OF FEMUR		FOOT, FLEXES LEG
<input type="checkbox"/> PERONEUS BREVIS	BODY OF FIBULA	5TH METATARSAL	PLANTAR FLEXES AND EVERTS FOOT
<input type="checkbox"/> PERONEUS LONGUS	LATERAL CONDYLE OF TIBIA	1ST METATARSAL AND CUNEIFORM	PLANTAR FLEXES AND EVERTS FOOT

**EXERCISE 3.12**  
**SELF-TEST**  
**FIGURE 3.5**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>ACTION(S)</b>
A	ZYGOMATICUS	DRAWS ANGLE OF THE MOUTH UPWARDS
B	ORBICULARIS ORIS	CLOSES AND COMPRESSES LIPS
C	TRAPEZIUS	ELEVATES CLAVICLE, ADDUCTS AND ROTATES SCAPULA
D	ORBICULARIS OCULI	CLOSES EYE
E	ZYGOMATICUS	DRAWS ANGLE OF THE MOUTH UPWARDS
F	STERNOCLEIDOMASTOID	FLEXES CERVICAL PORTION OF VERTEBRAL COLUMN AND DRAWS HEAD FORWARD
G	FRONTALIS	DRAWS SCALP ANTERIORLY

**EXERCISE 3.12**  
**SELF-TEST**  
**FIGURE 3.6**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>ACTION(S)</b>
A	TEMPOROPARIETALIS	AIDS IN RETRACTING FOREHEAD
B	OCCIPITALIS	DRAWS SCALP POSTERIORLY
C	TRAPEZIUS	ELEVATES CLAVICLE, ADDUCTS SCAPULA
D	FRONTALIS	DRAWS SCALP ANTERIORLY
E	ORBICULARIS OCULI	CLOSES EYE
F	ORBICULARIS ORIS	COMPRESSES LIPS
G	ZYGOMATICUS	DRAWS ANGLE OF THE MOUTH UPWARDS
H	STERNOCLEIDOMASTOID	FLEXES CERVICAL PORTION OF VERTEBRAL COLUMN AND DRAWS HEAD FORWARD

**EXERCISE 3.12**  
**SELF-TEST**  
**FIGURE 3.7**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>ACTION(S)</b>
A	TRAPEZIUS	ELEVATES CLAVICLE, ADDUCTS SCAPULA
B	TRAPEZIUS	ELEVATES CLAVICLE, ADDUCTS SCAPULA
C	TERES MAJOR	EXTENDS, ADDUCTS, AND MEDIALY ROTATES ARM
D	LATISSIMUS DORSI	EXTENDS, ADDUCTS, AND ROTATES ARM MEDIALY
E	DELTOID	ABDUCTS, FLEXES, EXTENDS, AND MEDIALY ROTATES ARM
F	PECTORALIS MAJOR	FLEXES, ADDUCTS, AND ROTATES ARM
G	CORACOBRAHIALIS	FLEXES AND ADDUCTS ARM
H	SERRATUS ANTERIOR	ROTATES SCAPULA SUPERIORLY AND ANTERIORLY
I	EXTERNAL ABDOMINAL OBLIQUE	COMPRESSES ABDOMEN

**CHAPTER 4**

**EXERCISE 4.2**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	SUPERIOR SAGITTAL SINUS	G	PARIETAL LOBE
B	FRONTAL LOBE	H	CORPUS CALLOSUM
C	LATERAL VENTRICLE	I	THIRD VENTRICLE
D	PITUITARY GLAND	J	PONS
E	FOURTH VENTRICLE	K	CEREBELLUM
F	INFERIOR OLIVARY NUCLEUS		

**EXERCISE 4.4**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	SUPERIOR SAGITTAL SINUS	G	SPINAL CORD
B	PARIETO-OCCIPITAL SULCUS	H	CINGULATE GYRUS
C	SPLENIUM OF CORPUS CALLOSUM	I	ANTERIOR COMMISSURE
D	INFERIOR COLLICULUS	J	MAMMILLARY BODY
E	CONFLUENCE OF SINUSES	K	STRAIGHT GYRUS
F	MEDULLA	L	TUBER CINEREUM

**EXERCISE 4.6**

<b>LABEL</b>	<b>REGION</b>
A	CERVICAL
B	THORACIC
C	LUMBAR

**EXERCISE 4.7**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	SPINAL CORD	D	LUMBAR SPINAL NERVES 1–5
B	FILUM TERMINALE INTERNUM	E	SACRAL SPINAL NERVES 1–5
C	CAUDA EQUINA	F	FILUM TERMINALE EXTERNUM

**EXERCISE 4.8**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	ANTERIOR MEDIAN FISSURE	E	ANTERIOR GRAY HORN
B	ANTERIOR GRAY COMMISSURE	F	LATERAL WHITE COLUMN
C	POSTERIOR GRAY HORN	G	POSTERIOR WHITE COLUMN
D	POSTERIOR MEDIAN SULCUS		

**EXERCISE 4.12**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	DORSAL RAMUS S1	F	MUSCULAR BRANCH OF SCIATIC
B	DORSAL RAMUS S2	G	NERVE TO SEMITENDINOSUS
C	POSTERIOR CUTANEOUS NERVE	H	DORSAL RAMUS S3
D	GLUTEAL NERVE	I	DORSAL RAMUS S4
E	SCIATIC	J	NERVE TO BICEPS FEMORIS

**EXERCISE 4.13**

<b>LABEL</b>	<b>IDENTIFIED AS</b>	<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	CELIAC BRANCH OF VAGUS NERVE	E	INFERIOR MESENTERIC GANGLION
B	LEFT CELIAC GANGLION	F	SUPERIOR HYPOGASTRIC PLEXUS
C	SUPERIOR MESENTERIC PLEXUS	G	INFERIOR HYPOGASTRIC PLEXUS
D	AORTICORENAL GANGLION		

**EXERCISE 4.14  
SELF-TEST**

1. WHAT IS CRANIAL NERVE X?	VAGUS
2. IDENTIFY CRANIAL NERVE V.	TRIGEMINAL
3. IDENTIFY CRANIAL NERVE III.	OCULOMOTOR
4. IDENTIFY CRANIAL NERVE IX.	GLOSSOPHARYNGEAL
5. IDENTIFY CRANIAL NERVE XII.	HYPOGLOSSAL
6. IDENTIFY CRANIAL NERVE I.	OLFACTORY
7. WHICH AREA OF THE BRAIN CONTROLS VITAL REFLEXES?	MEDULLA
8. WHAT ARE THE MEMBRANES SURROUNDING THE BRAIN COLLECTIVELY CALLED?	MENINGES
9. WHAT IS THE FISSURE THAT SEPARATES THE RIGHT AND LEFT CEREBRAL HEMISPHERES?	LONGITUDINAL
10. WHICH STRUCTURE PRODUCES THE CEREBROSPINAL FLUID?	CHOROID PLEXUS
11. IDENTIFY THE COMPONENTS OF THE BRAIN STEM.	MEDULLA AND PONS
12. HOW MANY PAIRS OF CRANIAL NERVES ARE THERE?	12
13. IDENTIFY THE MENINGEAL MEMBRANE THAT ADHERES TO THE BRAIN.	PIA MATER
14. IDENTIFY THE MENINGEAL MEMBRANE UNDERLYING THE SKULL.	DURA MATER
15. IN WHICH SPACE DOES THE CEREBROSPINAL FLUID FLOW?	SUBARACHNOID SPACE
16. WHICH CEREBRAL PORTION CONTROLS VOLUNTARY MOTOR FUNCTIONS?	FRONTAL LOBE

**CHAPTER 5****EXERCISE 5.2**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	COLLOID
B	FOLLICULAR CELLS
C	PARAFOLLICULAR CELLS

**EXERCISE 5.3**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	ISLETS OF LANGERHANS
B	ACINAR TISSUE

**EXERCISE 5.4**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
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A	ADRENAL CAPSULE
B	ZONA GLOMERULOSA
C	ZONA FASCICULATA
D	ZONA RETICULARIS

**EXERCISE 5.5**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	LUMEN OF TUBULE
B	SEMINIFEROUS TUBULE
C	INTERSTITIAL CELLS

**EXERCISE 5.6**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	SECONDARY FOLLICLE
B	ATRETIC FOLLICLE
C	PRIMARY FOLLICLE

**EXERCISE 5.7  
SELF-TEST**

1.	HYPOPHYSIS/PITUITARY GLAND
2.	HYPOTHALAMUS
3.	THYROID
4.	SUPRARENAL/ADRENAL
5.	THYROID
6.	TESTES AND OVARIES
7.	PROLACTIN
8.	ACTH
9.	THYROID & OVARY
10.	PANCREAS
11.	THYROGLOBULIN
12.	TESTES
13.	INSULIN
14.	GLUCAGON
15.	ADRENAL MEDULLA
16.	TESTOSTERONE
17.	ADRENAL MEDULLA
18.	GRAAFIAN FOLLICLE
19.	OOGENESIS
20.	TESTOSTERONE

EXERCISE 6.1–6.4

Q1:	PULMONARY TRUNK
Q2:	SUPERIOR AND INFERIOR VENA CAVAE AND CORONARY SINUS
Q3:	ASCENDING AORTA
Q4:	PULMONARY VEINS
Q5:	CORONARY ARTERY
Q6:	PECTINATE MUSCLES
Q7:	TRABECULAE CARNEAE
Q8:	MODERATOR BAND
Q9:	EPICARDIUM
Q10:	RIGHT VENTRICLE
Q11:	LUNGS
Q12:	DEOXYGENATED
Q13:	FORAMEN OVALE
Q14:	DUCTUS ARTERIOSUS
Q15:	LIGAMENTUM ARTERIOSUM
Q16:	BRACHIOCEPHALIC TRUNK
Q17:	RIGHT SUBCLAVIAN ARTERY AND RIGHT COMMON CAROTID ARTERY
Q18:	TRICUSPID VALVE
Q19:	AORTIC SEMILUNAR VALVE
Q20:	NONE
Q21:	CHORDAE TENDINEAE
Q22:	PAPILLARY MUSCLES
Q23:	MITRAL OR BICUSPID VALVE
Q24:	CORONARY SINUS

EXERCISE 6.6  
FIGURE 6.1

ITEM	VESSEL NAME
A	RIGHT BRACHIOCEPHALIC VEIN
B	SUPERIOR VENA CAVA
C	RIGHT ATRIUM OR AURICLE
D	AORTIC ARCH
E	PULMONARY TRUNK
F	PERICARDIAL SAC
G	LEFT VENTRICLE

**EXERCISE 6.6**  
**FIGURE 6.2**

ITEM	VESSEL NAME
A	RIGHT ATRIUM OR AURICLE
B	RIGHT VENTRICLE
C	TRICUSPID VALVE
D	PULMONARY TRUNK
E	PULMONARY SEMILUNAR VALVE
F	PAPILLARY MUSCLE
G	CHORDAE TENDINEAE
H	LEFT VENTRICLE

**EXERCISE 6.6**  
**FIGURE 6.3**

ITEM	VESSEL NAME
A	RIGHT PULMONARY ARTERY
B	RIGHT PULMONARY VEIN
C	INFERIOR VENA CAVA
D	AORTIC ARCH
E	ASCENDING AORTA
F	RIGHT ATRIUM OR AURICLE
G	RIGHT VENTRICLE
H	PERICARDIAL SAC

**EXERCISE 6.6**  
**FIGURE 6.4**

ITEM	VESSEL NAME
A	LEFT BRACHIOCEPHALIC VEIN
B	CORONARY SINUS
C	RIGHT VENTRICLE
D	TRICUSPID VALVE
E	AORTA
F	RIGHT PULMONARY ARTERY
G	LEFT ATRIUM OR AURICLE
H	RIGHT PULMONARY VEIN
I	FORAMEN OVALE
J	RIGHT ATRIUM OR AURICLE

Q1:	SUPERIOR MESENTERIC ARTERY
Q2:	RENAL ARTERIES
Q3:	BRACHIOCEPHALIC ARTERY
Q4:	LEFT SUBCLAVIAN ARTERY
Q5:	INFERIOR MESENTERIC ARTERY
Q6:	COMMON ILIAC ARTERIES
Q7:	RIGHT SUBCLAVIAN AND RIGHT COMMON CAROTID ARTERIES
Q8:	CELIAC TRUNK
Q9:	EXTERNAL AND INTERNAL CAROTID ARTERIES
Q10:	HEPATIC ARTERY
Q11:	SUPERIOR AND INFERIOR VENA CAVAE, CORONARY VEINS
Q12:	SUBCLAVIAN VEIN
Q13:	AXILLARY VEIN
Q14:	BRACHIOCEPHALIC VEIN
Q15:	SPLenic AND SUPERIOR MESENTERIC VEINS
Q16:	EXTERNAL AND INTERNAL ILIAC (HYPOGASTRIC) VEINS
Q17:	GASTRIC VEIN
Q18:	HEPATIC VEINS
Q19:	SHORT GASTRIC, LEFT GASTROEPIPLOIC AND INFERIOR MESENTERIC VEINS
Q20:	POSTERIOR AND ANTERIOR TIBIAL VEINS
Q21:	EXTERNAL AND INTERNAL ILIAC (HYPOGASTRIC) VEINS
Q22:	RADIAL AND ULNAR VEINS
Q23:	INTERNAL JUGULAR AND SUBCLAVIAN VEINS
Q24:	INFERIOR VENA CAVA
Q25:	INFERIOR VENA CAVA

**EXERCISE 7.3  
SELF-TEST  
FIGURE 7.1**

LABEL	DESCRIPTION
A	LATERAL THORACIC
B	SUBCLAVIAN ARTERY
C	INTERNAL THORACIC ARTERY
D	INFERIOR THYROID ARTERY
E	RIGHT COMMON CAROTID ARTERY
F	THORACODORSAL ARTERY

**EXERCISE 7.3**  
**SELF-TEST**  
**FIGURE 7.2**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	EXTERNAL CAROTID ARTERY
B	SUPERIOR THYROID ARTERY
C	RIGHT COMMON CAROTID
D	EXTERNAL JUGULAR VEIN
E	SUBCLAVIAN VEIN
F	INTERNAL JUGULAR VEIN
G	SUBCLAVIAN VEIN
H	AXILLARY VEIN
I	SUBSCAPULAR VEIN

**EXERCISE 7.3**  
**SELF-TEST**  
**FIGURE 7.3**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	INFERIOR MESENTERIC VEIN
B	SPLenic VEIN
C	PORTAL VEIN
D	SUPERIOR MESENTERIC VEIN
E	LEFT GASTRIC VEIN
F	LEFT TRIBUTARY OF THE PORTAL VEIN
G	COMMON HEPATIC DUCT
H	INFERIOR MESENTERIC VEIN
I	JEJUNAL VEINS

**EXERCISE 7.3**  
**SELF-TEST**  
**FIGURE 7.4**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	SUPERIOR VENA CAVA
B	LEFT BRACHIOCEPHALIC VEIN
C	VERTEBRAL VEIN
D	RIGHT COMMON CAROTID ARTERY
E	INFERIOR THYROID ARTERY
F	LEFT COMMON CAROTID
G	ASCENDING AORTA
H	LEFT PULMONARY ARTERY

**EXERCISE 7.3**  
**SELF-TEST**  
**FIGURE 7.5**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	RIGHT TESTICULAR ARTERY
B	LEFT TESTICULAR ARTERY
C	INFERIOR MESENTERIC ARTERY
D	DEEP FEMORAL ARTERY
E	LEFT EXTERNAL ILIAC ARTERY
F	GREAT SAPHENOUS VEIN
G	LEFT FEMORAL ARTERY

**EXERCISE 7.3**  
**SELF-TEST**  
**FIGURE 7.6**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	CELIAC TRUNK
B	RIGHT RENAL VEIN
C	INFERIOR VENA CAVA
D	SUPERIOR MESENTERIC ARTERY

**EXERCISE 7.3**  
**SELF-TEST**  
**FIGURE 7.7**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	PULMONARY TRUNK
B	LEFT SUPERIOR PULMONARY VEIN
C	AORTIC ARCH
D	ASCENDING AORTA
E	RIGHT PULMONARY ARTERY
F	DESCENDING THORACIC AORTA
G	BRACHIOCEPHALIC TRUNK
H	SUBCLAVIAN ARTERY
I	LEFT COMMON CAROTID ARTERY

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**CHAPTER 8**

**EXERCISE 8.5**

1	ALVEOLUS
2	SQUAMOUS PULMONARY EPITHELIAL CELLS
3	ALVEOLAR MEMBRANE

**EXERCISE 8.7  
SELF-TEST**

Q1:	THYROID
Q2:	CRICOID
Q3:	EPIGLOTTIS
Q4:	RIGHT
Q5:	OBLIQUE AND HORIZONTAL FISSURES
Q6:	DIAPHRAGM
Q7:	SOFT AND HARD PALATES
Q8:	NASOPHARYNX
Q9:	OROPHARYNX
Q10:	EUSTACHIAN OR AUDITORY TUBES
Q11:	FRONTAL
Q12:	SPHENOID
Q13:	NASOPHARYNX
Q14:	SUPERIOR, MIDDLE AND INFERIOR NASAL CONCHAE
Q15:	OROPHARYNX

**EXERCISE 8.7  
SELF-TEST  
FIGURE 8.2**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	THYROID CARTILAGE
B	TRACHEA WITH TRACHEAL RINGS
C	HORIZONTAL FISSURE OF RIGHT LUNG
D	ESOPHAGUS
E	AORTA
F	PRIMARY BRONCHUS OF LEFT LUNG

**EXERCISE 8.7  
SELF-TEST  
FIGURE 8.3**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	TRACHEA WITH TRACHEAL RINGS
B	EPIGLOTTIS
C	HYOID BONE
D	THYROID CARTILAGE

**EXERCISE 8.7  
SELF-TEST  
FIGURE 8.4**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	SPHENOID SINUS
B	SUPERIOR NASAL CONCHA
C	EPIGLOTTIS
D	TRACHEA
E	SOFT PALATE
F	ESOPHAGUS

**EXERCISE 8.7  
SELF-TEST  
FIGURE 8.5**

IDENTIFIED AS: HYALINE CARTILAGE OF TRACHEA
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**EXERCISE 8.7  
SELF-TEST  
FIGURE 8.6**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	NASAL SEPTUM
B	MAXILLARY SINUS
C	EPIGLOTTIS
D	INFERIOR NASAL CONCHA
E	UVULA OF SOFT PALATE

**EXERCISE 8.7  
SELF-TEST  
FIGURE 8.7**

<b>LABEL</b>	<b>DESCRIPTION</b>
A	SPHENOID SINUS
B	OPENING TO AUDITORY (EUSTACHIAN) CANAL
C	SOFT PALATE
D	PITUITARY GLAND
E	PHARYNGEAL TONSILS
F	NASOPHARYNX
G	THYROID CARTILAGE

EXERCISE 9.3

LABEL	IDENTIFIED AS
A	PERITONEUM
B	FUNDUS
C	BODY
D	INFERIOR VENA CAVA
E	ABDOMINAL ESOPHAGUS
F	FIRST PORTION OF DUODENUM
G	PYLORUS

EXERCISE 9.5

LABEL	IDENTIFIED AS
A	PYLORIC SPHINCTER
B	1ST PORTION OF DUODENUM
C	PERITONEUM
D	JEJUNUM
E	MESENTERY
F	ILEUM

EXERCISE 9.8

LABEL	IDENTIFIED AS
A	PERITONEUM INFERIOR TO DIAPHRAGM
B	LEFT LOBE OF LIVER
C	PORTAL VEIN
D	PERITONEUM
E	LEFT TRIBUTARY OF THE PORTAL VEIN
F	FISSURE FOR THE LIGAMENTUM VENOSUM
G	RIGHT LOBE OF LIVER
H	PROPER HEPATIC ARTERY
I	GALLBLADDER

EXERCISE 9.9  
SELF TEST

Q1:	PYLORIC
Q2:	ILEOCECAL
Q3:	TONGUE
Q4:	GREATER OMENTUM
Q5:	PAROTID
Q6:	SUBLINGUAL
Q7:	HARD PALATE
Q8:	CARDIA
Q9:	RUGAE
Q10:	LIVER
Q11:	GALLBLADDER

Q12:	LIVER
Q13:	COMMON HEPATIC DUCT AND CYSTIC DUCT
Q14:	DUODENUM
Q15:	ILEUM
Q16:	MESOCOLON
Q17:	VERMIFORM APPENDIX
Q18:	ANUS
Q19:	DEGLUTITION
Q20:	MASTICATION

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**EXERCISE 10**

**EXERCISE 10.3**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	PERIRENAL FAT
B	RENAL MEDULLA
C	RENAL VEIN - LEFT
D	RENAL COLUMN
E	URETER
F	MINOR CALYX
G	RENAL VEIN - RIGHT
H	ABDOMINAL AORTA

**EXERCISE 10.4**  
**SELF TEST**

1.	URETER
2.	KIDNEY
3.	HILUS
4.	RENAL ARTERIES
5.	RENAL CORTEX
6.	RENAL MEDULLA
7.	RENAL PYRAMIDS
8.	RENAL CAPSULE
9.	RENAL SINUS
10.	RENAL COLUMNS
11.	RENAL PELVIS
12.	MAJOR CALYX
13.	RETROPERITONEAL
14.	NEPHRON
15.	MICTURITION

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**CHAPTER 11**

**EXERCISE 11.3**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	DUCTUS DEFERENS
B	URINARY BLADDER

C	CORPUS CAVERNOSUM
D	SPERMATIC CORD
E	GLANS PENIS
F	AMPULLA OF THE VAS DEFERENS
G	PROSTATE GLAND
H	BULB OF THE PENIS
I	EPIDIDYMIS
J	TESTIS
K	SCROTUM

**EXERCISE 11.4**  
**SELF TEST**

Q1:	SCROTUM
Q2:	EJACULATORY DUCT
Q3:	EPIDIDYMIS
Q4:	PROSTATE GLAND
Q5:	SPERMATIC CORD
Q6:	INGUINAL CANAL
Q7:	CORPUS SPONGIOSUM
Q8:	CORPUS CAVERNOSUM AND CORPUS SPONGIOSUM
Q9:	GLANS PENIS
Q10:	PREPUCE
Q11:	SEMINIFEROUS TUBULES
Q12:	DUCTUS EFFERENS
Q13:	DUCTUS DEFERENS
Q14:	TESTES
Q15:	BULBOURETHRAL (COWPER'S) GLAND

**CHAPTER 12**

**EXERCISE 12.2**

LABEL	IDENTIFIED AS
A	FAT
B	DEEP LAYER OF THE SUPERFICIAL FASCIA
C	LOBE OF THE MAMMARY GLAND
D	LACTIFEROUS DUCT
E	SUSPENSORY LIGAMENT
F	MEMBRANOUS LAYER OF THE SUPERFICIAL FASCIA

**EXERCISE 12.5**

LABEL	IDENTIFIED AS
A	RECTUM
B	RECTOUTERINE POUCH
C	CERVIX
D	VAGINA
E	INFUNDIBULUM OF UTERINE TUBE

F	UTERINE TUBE
G	FUNDUS OF UTERUS
H	VESICOUTERINE POUCH
I	URINARY BLADDER
J	CLITORIS
K	LABIA MAJORA

**EXERCISE 12.6**

<b>LABEL</b>	<b>IDENTIFIED AS</b>
A	RECTUM
B	FUNDUS OF UTERUS
C	SUPRAVAGINAL PORTION OF CERVIX
D	VAGINA
E	ROUND LIGAMENT
F	OVARY
G	UTERINE TUBE

**EXERCISE 12.7**

Q1:	VESICOUTERINE POUCH
Q2:	FIMBRIAE
Q3:	CERVIX
Q4:	RECTOUTERINE POUCH
Q5:	FUNDUS
Q6:	EXTERNAL OS
Q7:	BROAD LIGAMENT
Q8:	UTEROSACRAL LIGAMENT
Q9:	MYOMETRIUM
Q10:	STRATUM FUNCTIONALIS
Q11:	VAGINA
Q12:	VULVA
Q13:	CLITORIS
Q14:	LACTIFEROUS DUCTS
Q15:	ALVEOLI
Q16:	OVARY
Q17:	PERIMETRIUM
Q18:	ROUND LIGAMENT
Q19:	INTERNAL OS
Q20:	OVARIES