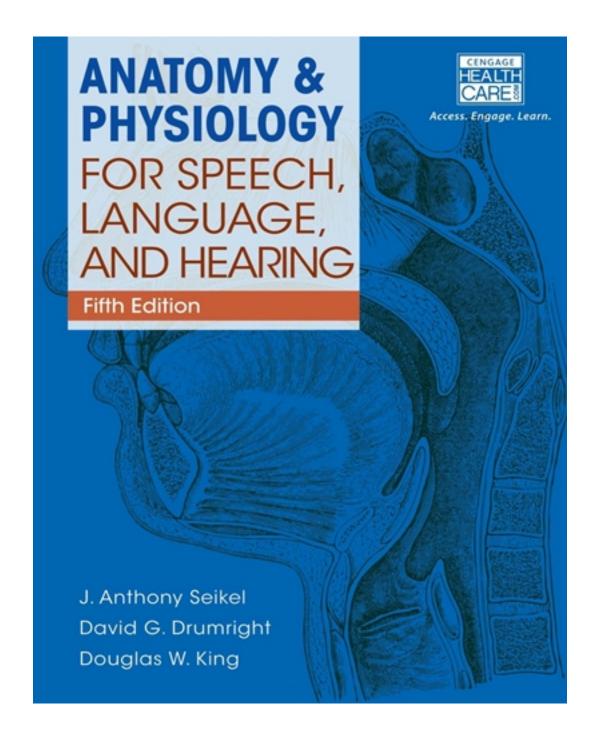
Test Bank for Anatomy and Physiology for Speech Language and Hearing 5th Edition by Seikel

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Test Bank

SHORT RESPONSE

1: What are the three major structures of respiration?

Correct Answer: The three major structures of respiration are: 1. Bony thorax, which contains the vertebrae, vertebral column, ribs, pectoral girdle, sternum, and pelvic girdle. 2. Visceral thorax, which contains the respiratory passageway, lungs, and the mediastinum. 3. Muscles of respiration, which contain the diaphragm, accessory muscles of inspiration, accessory muscles of expiration, and muscles of postural control.

2: What are the three classes of ribs?

Correct Answer: 1. True (vertebrosternal) ribs, which include the upper ribs (1-7), all of which are directly attached to the sternum. 2. False (vertebrochondral) ribs, which include ribs 8, 9, and 10, and are attached to the sternum through cartilage. 3. Floating (vertebral) ribs (ribs 11 and 12), which articulate only with the vertebral column.

3: What are the three morphological changes that occur in people with emphysema?

Correct Answer: 1. The first morphological change affects the alveoli of the lungs. The walls of the alveoli break down, and clusters of alveoli become a single sac. 2. The second morphological change arises as a result of the first change. The person experiences an ongoing shortage of oxygen, must breathe deeper and deeper to accommodate, and thus develops a "barrel chest." 3. The third morphological change results in respiratory failure, which leaves the person susceptible to respiratory disorders such as pneumonia.

4: What it "dry" pleurisy?

Correct Answer: Pleurisy is a disease characterized by inflammation of the pleural linings of the thoracic cavity. This inflammation can result in a condition called "dry pleurisy," which causes the client severe pain upon breathing. The cause of the pain is the loss of the lubricating quality of the intrapleural fluid. Adhesions may form that cause portions of the parietal pleurae to adhere to the visceral pleurae. Pleurisy may be unilateral or bilateral, and may cause excessive fluid (which is sometimes purulent) in the pleural space.

D:

MULTIPLE CHOICE	
5 : Which of the following is defined as the exchange of oxygen between an organism and its environment? A :	
Elimination	
B:	
Expiration	
C:	
Respiration	

Inspiration	CLICK HERE TO ACCESS THE COMPLETE Test Bank				
Correct Answer : C					
6 : Gas exchange occurs within the minute air sacs of the lungs called A :					
alveoli.					
B:					
trachea.					
C:					
bronchi.					
D:					
terminal bronchioles					
Correct Answer :	A				
7 : Pressure is de A :	efined as				
F = P/A.					
B:					
F = A/P.					
C:					
$F = P \times A/P.$					
D:					
none of the above.					
Correct Answer:	A				

8: Boyle's law states that

A :

given a constant temperature and pressure, increasing the number of molecules in a container will increase the pressure.

B :

given a volume of gas, increasing the pressure on the gas will increase the number of molecules in the gas.

C :

given a gas of constant temperature, increasing the volume of the chamber in which the gas is contained will decrease the pressure.

U:
none of the above.
Correct Answer : C
9 : When the volume of a closed container such as a hypodermic needle is increased, A :
pressure increases.
B:
pressure decreases.
C:
Boyle's law is violated.
D:
air or liquid will be sucked into the hypodermic needle.
Correct Answer : B
10 : The lungs are housed within the A :
abdominal region.
B:
sternal cavity.
C:
diaphragm.
diaphragm. D:
D:
D: thorax.
D: thorax. Correct Answer: D 11: The lateral aspect of the thorax is made up of the
D: thorax. Correct Answer: D 11: The lateral aspect of the thorax is made up of the A:
D: thorax. Correct Answer: D 11: The lateral aspect of the thorax is made up of the A: rib cage.
D: thorax. Correct Answer: D 11: The lateral aspect of the thorax is made up of the A: rib cage. B:

sternum and clavicle.

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D :	CLICK HERE TO ACCESS THE COMPLETE TEST BANK
scapula.	
Correct Answer : A	A
12 : The functiona A :	Il unit of the vertebral column is the
spinous process.	
B:	
vertebrae.	
C:	
lateral process.	
D:	
vertebral canal.	
Correct Answer : E	3
13 : How many ce A :	ervical vertebrae are there in the human body?
12	
B:	
6	
C:	
4	
D:	
7	
Correct Answer : [D
14 : How many the A :	oracic vertebrae are there in the human body?
17	
B:	
7	
C:	
12	

D:	CLICK HERE TO ACCESS THE COMPLETE Test Bank
8	
Correct Answer : C	
15 : How many lun A :	nbar vertebrae are there in the human body?
8	
B:	
4	
C:	
6 or 7	
D:	
None of the above	
Correct Answer : D	
16 : How many sad A :	cral vertebrae are there in the human body?
5	
B:	
7	
C:	
12	
12 D:	
D:	
D: None of the above Correct Answer: A	s forms the palpable aspect of the vertebral column?
D: None of the above Correct Answer: A 17: Which process	
D: None of the above Correct Answer: A 17: Which process A:	
D: None of the above Correct Answer: A 17: Which process A: Lateral	
D: None of the above Correct Answer: A 17: Which process A: Lateral B:	

D:	ICK HERE TO ACCESS THE COMPLETE Test Bank
Anterior	
Correct Answer : C	
18 : Which processes A :	form the primary attachment of the rib to the vertebral column?
Transverse	
B:	
Costal	
C:	
Vertebral	
D:	
Posterior	
Correct Answer : A	
19: Which is the charA:	nnel through which the spinal cord passes?
Vagal formation	
B:	
Foramen ovale	
C:	
Alveolar portion	
D:	
Vertebral foramen	
Correct Answer : D	
20 : Spinal nerves ex A :	it the spinal cord via the
vagal trigone.	
B:	
foramen magnum.	
C:	

intervertebral foramen.

icthic bone.

D:	CLICK HERE TO ACCESS THE COMPLETE Test Bank
sarcoid unit.	
Correct Answer : A	4
24: Which of the fA:	following forms the superior attachment for the inguinal ligament?
Transverse process of	S5
B:	
Sacral ridge	
C:	
Pubic symphysis	
D:	
Iliac crest	
Correct Answer : [)
25 : Which is the in A :	nferior-most component of the vertebral column?
Coccyx	
B:	
Sacrum	
C:	
Pubic symphysis	
D:	
D : Sacral ridge	
	<i>t</i>
Sacral ridge Correct Answer: A	A girdle consists of the scapula and
Sacral ridge Correct Answer : A 26 : The pectoral of	
Sacral ridge Correct Answer : A 26 : The pectoral of A:	
Sacral ridge Correct Answer: A 26: The pectoral of A: sternum.	girdle consists of the scapula and
Sacral ridge Correct Answer: A 26: The pectoral of A: sternum. B:	girdle consists of the scapula and

D:	CLICK	HERE	TO ACCESS	THE	COMPLETE	Test	Bank
inguinal ligament.							
Correct Answer : 0	С						
27 : There is/are h A :	now man	y floatin	g ribs?				
1							
B:							
2							
C:							
3							
D:							
4							
Correct Answer : I	3						
28 : There are how A :	w many t	rue ribs	?				
12							
B:							
7							
C:							
5							
D:							
3							
Correct Answer : I	3						
29 : At rest, the rib	cage sl	opes					
downward.							
B:							
upward.							
C:							
laterally.							

D:

transversely.

Correct Answer: A

MATCHING

30 : Match each term to the correct descriptor. Terms may be used more than once or not at all.

A: The superior-most structure of the sternum A: corpus sterni

B: The head of the first rib attaches to this

structure

C : Forms the anterior-most attachment of the C : xiphoid process

diaphragm

D: The inferior-most component of the

vertebral column

E : Vertebrae that have an opening through

which the vertebral artery passes

F: Forms the superior aspect of the pectoral

girdle

B: manubrium sterni

D : clavicle

E: scapula

F: thoracic vertebrae

G: cervical vertebrae

H: coccyx I : sacrum

Correct Answer:

A : B

B: B

C:C

D:H

E : G

F:D

31: Match each muscle to the correct descriptor. Terms may be used more than once or not at all.

A: The primary muscle of inspiration A: pectoralis major

B: Arm muscle that attaches to the sternum B: intraosseous portion, internal intercostals

and elevates the sternum during inspiration

C: Lies deep to the pectoralis major, originates C: pectoralis minor

on the coracoid process of the scapula, and

elevates the rib cage

D: Responsible for turning the head, as well as D: sternocleidomastoid

elevating the thorax

E: Elevate each of the ribs during inspiration E : scalenus anterior, medius, posterior

F: diaphragm

G: external intercostals

Correct Answer: A:F	THE COMPLETE Test Bank
B : A	
C : C	
D : D	
E:G	
32 : Match each muscle to the correct descripto all.	r. Terms may be used more than once or not at
A : Segmented muscle that runs from the xiphoid process to the pubic symphysis	A : rectus abdominis
B: Muscle of expiration that originates on the inguinal ligament and courses fanlike to insert into the linea semilunaris and lower margin of	B: transversus thoracis
the rib cage C: Elevates the rib cage D: Pulls the ribs closer together as it depresses the rib cage	C : transversus abdominis sD : external intercostals
E : Courses from the thoracolumbar fascia to the linea semilunaris	E : internal intercostals
	F: intraosseous portion, internal intercostals G: intraosseous portion, external intercostals H: internal oblique abdominis
Correct Answer : A : A	
B : H	
C : D	
D : E	
E : B	
33 : Match each muscle to the correct descripto all.	r. Terms may be used more than once or not at
A: Elevates the ribs B: Deep to the rib cage; depresses the rib cage	A : rectus abdominis eB : transversus abdominis
during expiration C: Unilateral contraction of this muscle helps	C : transversus thoracis
rotate the trunk in the direction of contraction D: Originates on the inguinal ligament and linea semilunaris and courses fanlike to insert into the lower ribs	D : internal oblique abdominis
E : Contraction of this muscle brings the sternum closer to the pubic symphysis	E : internal intercostals

CLICK HERE TO ACCESS THE COMPLETE Test Bank $\mbox{\bf F}:$ transversus thoracis

G: external intercostals

H: external oblique abdominis

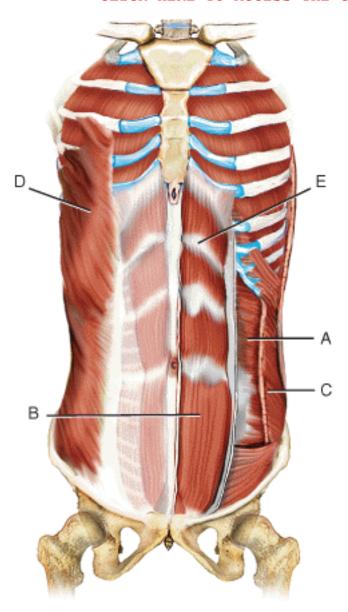
Correct Answer : A : G	
B : F	
C : D	
D : H	
E : A	
34: Match each term to the correct descriptor. ⁻ A: Component of the posterior attachment of the abdominal aponeurosis	Ferms may be used more than once or not at all. A : inguinal ligament
B : Forms the insertion for the rectus abdominis C : Forms the superior point of attachment for the rectus abdominis	
D : Divides the left and right rectus abdominis muscles	D : linea alba
E : Courses from the iliac crest to the pubic symphysis	E : thoracolumbar fascia
Correct Answer : A : E	
B : C	
C : B	
D : D	
E : A	
35: Match each term to the correct descriptor. ⁻ A: Muscle of the thorax that elevates the first four ribs	Ferms may be used more than once or not at all. A: transversus thoracis
B : Muscle of the thorax that depresses the last four ribs	B : serratus posterior inferior
C : Arises from the transverse process of a thoracic vertebra and courses down to insert into the rib below	C : serratus posterior superior
D : Arises from a thoracic vertebra and courses down. It skips the rib immediately below its vertebral origin and inserts into the rib below it	D : levator costarum longis
-	E : levator costarum brevis

F: rhomboideus major and minor

G: trapezius

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Correct Answer : A : C	
B : B	
C : E	
D : D	
36: Match the indicated muscle or component than once or not at all. A: Sternocleidomastoid B: External intercostal C: Internal intercostal, intraosseous component D: Internal intercostal, interchondral component E: Trapezius F: Quadratus lumborum G: Transversus thoracis H: Pectoralis major I: Scalenus anterior J: Rhomboideus major and minor	to the correct function. Terms may be used more A: inspiration B: expiration atC: neck stability D: trunk stability
Correct Answer : A : A	
B : A	
C : B	
D : A	
E : C	
F : D	
G : B	
H : A	
I : C	
J:D	
37 :	



Identify the muscles indicated on the following figure using the letters provided. Letters may be used more than once or not at all.

A: Rectus abdominis A: 1
B: Transversus abdominis B: 2
C: External oblique abdominis C: 3
D: Internal oblique abdominis D: 4
E: Muscle that brings the pubic symphysis and E: 5
the sternum closer together when it contracts.

Correct Answer:

A : B

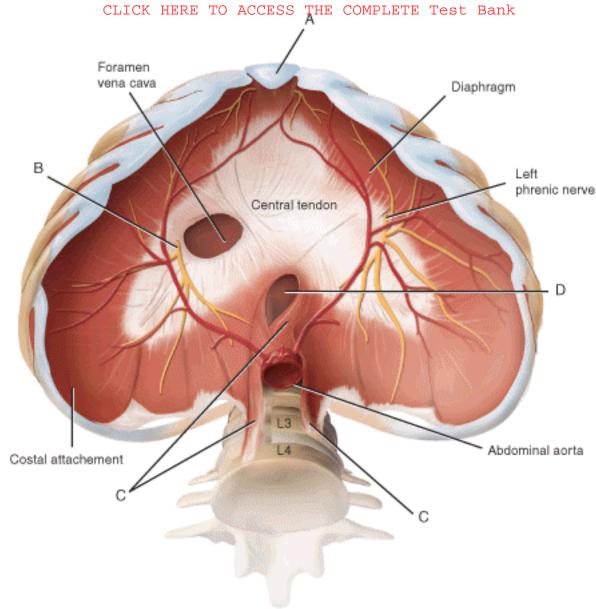
B:A

C:D

D:C

E : B





INFERIOR VIEW

Identify the components indicated on the following figure using the letters provided. Letters may be used more than once or not at all.

A: Posterior-most attachment of the diaphragm A: 1 B : Sternal attachment of the diaphragm C: The esophageal hiatus C:3 D: Point of attachment arising from the L4 and D: 4

L5 vertebrae

Correct Answer:

A : C

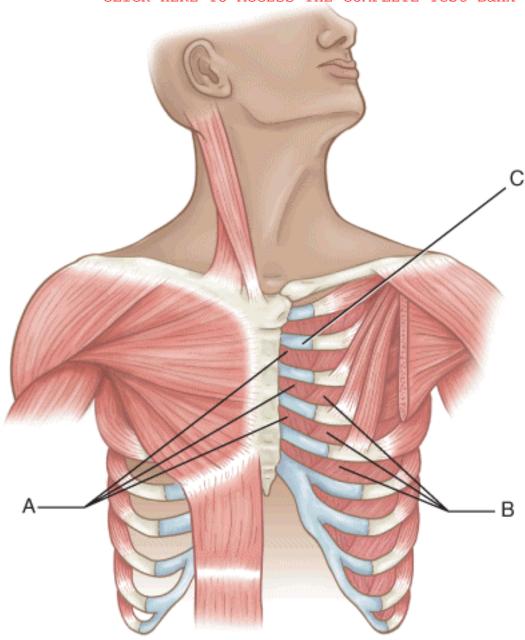
B:A

C : D

D:C

39:





Identify the components indicated on the following figure using the letters provided. Letters may be used more than once or not at all.

A : A muscle of inspiration	A : 1
B : Internal intercostal muscle	B:2
C : Chondral portion of the rib cage	C:3
D : External intercostal muscle	D:4

Correct Answer:

A : B

B:A

C : C

D:B

FILL IN THE BLANK

40 : A relative increase in air pressure over atmospheric pressure is known as pressure.
Correct Answer : positive
41 : A relative decrease in air pressure under atmospheric pressure is known as pressure.
Correct Answer : negative
42 : The of the sternum is the point of attachment for the first rib and clavicle.
Correct Answer : manubrium
43 : The of the sternum is the largest component, forming the point attachment for all but one of the true ribs.
Correct Answer : Corpus
44 : The process is the inferior-most aspect of the sternum.
Correct Answer : xiphoid
45 : The is a flexible tube beneath the larynx, forming the first passageway to the lungs.
Correct Answer : trachea
46 : The is the point of bifurcation of the trachea.
Correct Answer : carina tracheae
47 : The esophagus is (anterior/posterior) to the trachea.
Correct Answer : posterior
48 : The (left/right) lung has two lobes.
Correct Answer : left
49 : Secondary bronchi serve the of the lungs.
Correct Answer : lobes
50 : Tertiary bronchi serve the of the lungs.
Correct Answer : segments
51 : Alveoli are located at the ends of the bronchioles.
Correct Answer : terminal

52 : During inspiration, the diaphr	TO ACCESS THE COMPLETE Test Bank agm is contracted, which causes it to (elevate/depress)
Correct Answer : depress	
53 : During inspiration, the inspira (elevate/depress)	tory muscles of the rib cage contract, causing the rib cage to
Correct Answer : elevate	
54: When the rib cage becomes	smaller during respiration, air will flow (into/out of) gs.
Correct Answer : out of	
55 : The term used for a puncture	d lung is
Correct Answer : pneumothorax	
56 : Thewall.	_ lining completely envelops the lungs and the interior thoracic
Correct Answer : pleural	
57 : The	pleurae cover the surface of the lungs.
Correct Answer : parietal	
58 : The	pleurae cover the rib cage.
Correct Answer : costal	
59: When the serous fluid betwee have	en the pleural linings is lost or reduced, a person is said to
Correct Answer : pleurisy	
60 : The space holding the heart i	s termed the
Correct Answer : mediastinum	
61 : The	_ nerve innervates the diaphragm.
Correct Answer : phrenic	
62 : Theorigin of this muscle.	_ attachment of the diaphragm is the anterior-most point of
Correct Answer : sternal	
63 : Thediaphragm.	tendon is the point of insertion for all muscle fibers of the

CLICK HERE TO ACCESS THE COMPLETE Test Bank Correct Answer: central 64: The diaphragm muscle fibers arising from the _____ _____ point of attachment encircle the esophagus as they transit to the central tendon. Correct Answer: vertebral 65: When the diaphragm contracts, the central tendon (elevates/depresses) Correct Answer: depresses 66 : The phrenic nerve arises from the ______ plexus. Correct Answer: cervical 67: The ______ intercostal muscles are muscles of inspiration. Correct Answer: external 68 : The ______ portion of the internal intercostal muscles is involved in inspiration. Correct Answer: chondral 69 : The _____ intercostal muscles are primarily involved in expiration. Correct Answer: internal 70 : The external intercostal muscles (elevate/depress) the rib cage. Correct Answer: elevate 71 : The serratus posterior superior muscles (elevate/depress) ______ the rib cage. Correct Answer: elevate 72: The muscle elevates the sternum and clavicle, and also rotates the head. Correct Answer: sternocleidomastoid _____ muscle is actually a muscle of the arm, and elevates the rib cage by means of sternal and clavicular muscular components. Correct Answer: pectoralis major

74 : The _____ muscle is a massive muscle of inspiration making up the superficial upper back and neck; it originates along the spinous processes of C2 to T12 by means of fascial connection.

Correct Answer: trapezius

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75 : The	muscles are posterior thoracic muscles of inspiration
	ortion originates on a transverse process of a vertebra (from C7
tubercle of the rib below.	scles. Fibers course obliquely down and out to insert into the
Correct Answer : levator costarur	n brevis
76 : The	muscle originates on the spinous processes of C7 and
T1 through T3. Fibers from these	muscles course down and laterally to insert just beyond the roup of muscles elevates the rib cage during inspiration.
Correct Answer : serratus posteri	or superior
originating on the margin of the s	_ muscle is found on the inner surface of the rib cage, ternum, with fibers coursing to the inner chondral surface of his muscle resists elevation of the rib cage and decreases the
Correct Answer: transversus tho	racis
78 : The	muscles originate on the spinous processes of the
_	ebrae and course up and laterally to insert into the lower
margin of the lower five ribs. Con	traction of these muscles pulls the rib cage down for expiration.
Correct Answer : serratus posteri	or inferior
79 : The	hiatus is the opening of the diaphragm that permits
connection of the pharyngeal reg	ion with the stomach.
Correct Answer : esophageal	
. •	