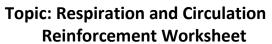


## Science Class 8





Name:	Sec:	Date:						
Q.1 Ch	oose the best answer.							
1)	Which type of blood vessels carries blood a	f blood vessels carries blood away from the heart?						
	a) veins	b) arteries						
	c) capillaries	d) arteries and veins						
2)	What part of the blood carries minerals, vicells?	vitamins, sugar and other foods to the body's						
	a) plasma	b) platelets						
	c) red cells	d) white cells						
3)	Which of the following can best be compared	red to soldiers?						
	a) capillaries	b) red blood cells						
	c) white blood cells	d) platelets						
4)	What body structure protects the lungs fro	om physical injury?						
	a) cartilage	b) tiny sac						
	c) rib cage	d) diaphragm						
	nhaled air contains about 78 % nitrogen. W concentration of nitrogen in exhaled air?	hat is the approximate percentage						
	a) 8%	b) 10%						
	c) 78%	d) 16%						
6) '	When we inhale:							
	a) intercostal muscles contract and ribs mob) diaphragm muscles contract and the ribs							
	c) diaphragm muscles contract and the ribs	•						
	d) intercostal muscles contract and the dia							
7	) Inhalation and exhalation of air is called:							
	a) breathing	b) diffusion						
	c) respiration	d) gaseous exchange						
	-11	-, 0						

a) resp b) bot c) bot	ich statement is <b>not correct</b> when comparing respiration and burning a fuel? Diration is fast and not controlled, burning is rapid and controlled The respiration and burning produce water and carbon dioxide The respiration and burning use up oxygen The respiration and burning release heat energy, but only burning gives out light as well
Q.2 Fil	in the blanks.
1) And	ther name for the wind pipe is
2) Lun	gs are made up of tiny sac like structures called
3) The	re are types of blood vessels.
4) Pulr	nonary artery carries blood.
Q.3 W	rite True or False. If the statement is false, then re-write it to make it correct.
1.	Pulmonary vein contains oxygenated blood.
2.	Upper chambers of human heart are bigger than lower chambers.
3.	Oxygenated blood flows through veins.
4.	Exchange of gases takes place through thin walls of capillaries.
5.	The Blood Circulatory System is made up of lungs, blood and blood vessels.
6.	Human heart has five chambers.
7.	The right side of the heart receives oxygenated blood.

Q.4 Match the following arteries with the organs in which they supply blood & write the correct answer in Column 'C'.

Column A – Artery	Column B - Organs	Column C
i) Pulmonary	a. Head and arms	
ii) Renal	b. Lungs	
iii) Hepatic	c. Legs	
iv) Carotid	d. Kidney	
v) Sciatic	e. Liver	

## Q.5 Differentiate between the following:

BREATHING	RESPIRATION
ARTERIES	VEINS
RED BLOOD CELLS	WHITE BLOOD CELLS
INHALED AIR	EXHALED AIR
AEROBIC RESPIRATION	ANAEROBIC RESPIRATION

Q.6 Label the diagram.
The human system.
a) How is the alveoli adapted to perform its function?
c) The diagram below shows a ciliated cell from the lining of the airway.
(i) What is the function of cilia in the airway?
(ii) What effect does cigarette smoke have on the cilia?
(iii) Name the substance(s) present in cigarette smoke, which causes addiction to smoking.
d) Describe the role of the following structures in breathing:
(i) diaphragm:
(ii) ribs:
(iii) intercostal muscles:
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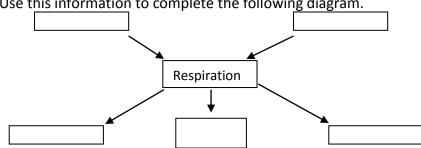
Q.7 Read the following information.

During the process of respiration, chemical reaction takes place.

These chemical reactions:

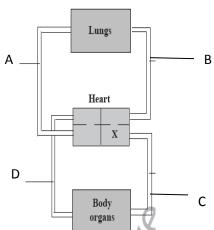
- Use up oxygen and glucose
- Produce carbon dioxide and water
- Release energy

Use this information to complete the following diagram.



- Q.8 Lactic Acid is produced in muscles cells after a period of exercise.
- (a) Name the process which produces lactic acid.
- (b) State the word equation for the above mentioned process.
- (c) How is this process different from respiration?
- (d) Explain why the blood flow to the muscles increases during exercise.

Q.9 The diagram shows a plan of part of the circulation.



(i) A:
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/ii/	B:			
<b>\      </b>	υ.			

(b)	From	the	diagram	given	above,	identify	y the l	etter fo	or the	blood	vessels	which	carry
оху	ygenat	ed b	lood:										

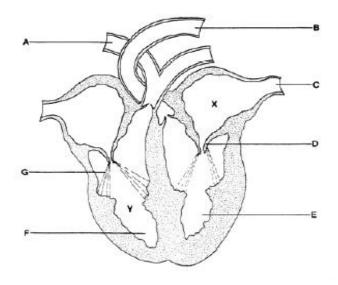
(c) How does	s the concentration	on of oxygen char	nge as the blood	passes through the	organs?


(d) Identify the chamber of the heart labelled X:	
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Q.10 The table gives a list of statements concerned with arteries, veins and capillaries. Tick (V) in the correct box to indicate which statement applies to which type of blood vessel.

	ARTERIES	VEINS	CAPILLARIES
Pick up oxygen from the			
alveoli in the lungs			
Carry blood at high			
pressure			
Are in close contact with			
cells of the body			
Carry blood back to the			
heart			

Q.11 Look at the diagram of the human heart and answer the questions.



a)	the diagram.
b)	What is the function of D in the heart?
c)	How is Pulmonary artery different from the rest of the arteries in the body?
d)	Identify <b>E</b> and <b>F</b> parts in the diagram. Explain why part E exerts more pressure than F?
e)	What is the function of hemoglobin in red blood cells?