GREENLAWNS SCHOOL, WORLI

TERMINAL EXAMINATION: 2016-17

General Science

Std: \	Std: VII Marks: 80 Date: 06/10/2016 Time: 1½ h	
Date:		
Carefu	ully read this paper in the first ten minutes. Your answers should be co	oncise and contain
scient	ific terms. All answers have to be written on the answer script.	
0.4\	Manage the fallencing	[4.0]
,	Name the following:	[10]
	A large muscular sheet that forms the floor of the chest cavity.	
	S.I. unit of heat.	
	Image that can be captured on a screen.	
	Formation of a brown flaky layer on iron.	
	Instrument used for measuring rainfall.	
	Product of anaerobic respiration in plants.	
g.	The band of seven colours formed on a white screen when a b	eam of white light is
	passed through a glass prism.	
	Voice box located at the entrance of trachea.	
i.	The study of weather.	
j.	Tiny openings on the bark of woody plant that bring about resp	piration.
Q.2) F	Fill in the blanks:	[10]
a.	In the reaction between copper sulphate and iron nails, the blu	e colour of the solution
	changes to due to the formation of a new substance	called
b.	mirror cannot form magnified image.	
	The of birds are modified into wings for flying.	
	All metals are conductors of heat.	
	Normal breathing rate is about times per minute.	
	The distance that light travels in a year is called a	
	Conduction happens only in	
_	are instruments used for measuring humidity.	
i.	Lime water turns when it comes in contact with carbo	on dioxide.
Q.3) [Define the following:	[5]
a.	Radiation d. Reflection of light	
b.	Enamelling e. Adaptation	
C.	Aerobic respiration	
Q.4) S	State whether the following statements are true or false. If false,	rewrite the [5]
(correct statement:	
a.	Dark coloured clothes are preferred during summer.	
	Bicycle handles and car bumpers are coated with nickel or chr	omium.
C.		
	air.	
d.	Einstein as the first to obtain the spectrum of sunlight by passing	ng it through a prism.
	Mountains and hilly areas record higher temperature than at se	• • •

Q.5) Give one difference b	between the following p	airs on the basis	of what is indicated
in the brackets:			[5]

- a. Inspiration and expiration (shape of diaphragm)
- b. Convection and radiation (direction of heat transfer)
- c. Physical and chemical change (mass)
- d. Temporary and permanent adaptation (example)
- e. Concave and convex mirror (use)

Q.6) Give scientific reasons for the following:

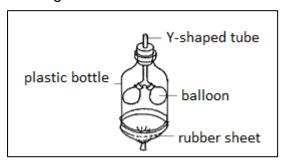
[5]

- a. Asbestos sheets are preferred over iron sheets for roofing.
- b. We must always breathe through our nose.
- c. Spoiling of food is a chemical change.
- d. Red eyed frog has sticky pads on its feet.
- e. Human eye is actually a lens.

Q.7) Answer in short:

[10]

- a. What is the function of epiglottis and alveoli in respiration?
- b. Mention any two salient features of weather report.
- c. Why are rooms provided with ventilators near the ceiling?
- d. Name any two parts of a vacuum flask and give their functions.
- e. How will you distinguish between a concave and convex mirror without actually touching it?
- Q.8) Answer the following diagram based questions:
- a. The figure given below represents an apparatus which is used to demonstrate the process of breathing:



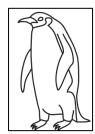
i.	What is the aim of this experiment?	[1]	
ii.	What do the balloons, plastic bottle and rubber sheath represent?	[1½]	
iii.	Which breathing movement is indicated in this figure?	[½]	
iv.	What will happen when the rubber sheet is pushed upwards?	[1]	
Observe the object given below and answer the guestions that follow:			

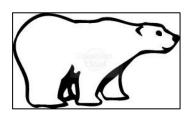
b. Observe the object given below and answer the questions that follow:



 Name the type of lens used in this object. 	[1]
ii. What kind of image is produced by such a lens?	[1½]
iii. Give two other uses of the lens mentioned by you	[1]
in (i).	
iv. What is the other name of this lens?	[½]

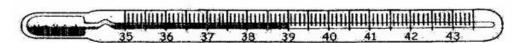
c. Describe the adaptations found in the following species:





[6]

d. Observe the figure given below and answer the questions that follow:



- i. What type of thermometer is this?
 ii. Why do you need to jerk the thermometer before use?
 iii. How is this thermometer different from its other type?
 iv. List any 2 precautions to be observed while reading this thermometer.
 v. What is the liquid used in this type of thermometer and why?
 [3]
- Q.9) Answer in brief:
 - a. Draw and explain sea breeze. [4]
 - b. Complete the equations:
 - i. Glucose + Oxygen → _____ + ____ + ____ [4]
 - ii. Glucose → _____ + energy
