			•	COM	IPETI	ENCY	BASE	ED ASS	ESSME	ENT TI	EST					
SUBJECT: CLASS: VI	SCIE	NCE											MARI HOU			_
Name:										Roll	No:					
														_		
READ THE	FOL	LOW	ING I	NST	RUC	ΓIONS	CAR	EFULI	LY:							
1. In this boo	oklet y	ou wil	l find	NIN	E ques	stions.	You m	ust ans	wer all t	he ques	stions.					
2. Answers t	o <b>all</b> th	ne que	stions	must	be wi	ritten n	eatly in	n the sp	aces pro	vided.						
3. Do <b>not</b> wi	rite dui	ring th	e first	fifte	en mii	nutes.	This tii	me is to	be spen	t on re	ading t	he que	stions.			
4. You will l									1		υ					
						•			C 1	1 C	d	1	··	a c	1	1
5. You will b					examıı	nation	room o	nly hal	1-an-nou	r befor	e the c	omple	tion of	the stij	pulatec	i time
6. This book	let con	itains 2	25 pag	ges.												
(FIFTEEN answering the			be al	lowe	d for t	eacher	s on du	ity to ex	xplain th	e instru	ections	in add	ition to	the tw	vo hou	rs for
	•		02	0.4				achers	' use onl	ly		0.6			0	. =
Question Mark	Q1 25	Q2 10	Q3 10	Q4 10	a(2)	b(2)	Q5 ci(2)	cii(1	) d(2)	a(3)	b(2)	Q6 c(1)	d(2)	e(1)	a(2)	7 b(2)
Mark					( )											
scored Initial																
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Question		<b>Q</b> 7					Q8						Q9			
Mark	c(2)	d(2)	e(1)	) a(	1) b	(1) c(	(2) d(	(1) e(	2) f(2)	a(1)	b(2)	c(1)	d(2)	e(1)	f(1)	g(1)
Mark scored																
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Fina	ıl Mar	ks:														
Initi	al of t	he tab	ulato	r:												

**Question 1** [25 Marks] Direction: Each question is followed by FOUR possible answers. Choose the most correct answer and write it down in the space provided. The symbol of mercury is i. A Mg. В Mn.  $\mathbf{C}$ Hg. D He. Answer:.... ii. 'It is the smallest particle which may or may not have free existence. Thousands of them can fit on the tip of a pencil.' This best describes A an atom. В an element.  $\mathbf{C}$ a molecule. D a compound. Answer:.... iii. Which of the following is the advantage of hard water? A It irritates skin. В It does not form lather easily.

 $\mathbf{C}$ 

D

It strengthens teeth and bones.

Answer:.....

It deposits insoluble salts on the wall of the water pipes.

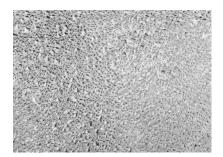
iv.	Pema planted a sapling when he was in Class III. After five years, his sapling had grown bigger and
	taller. The changes occurred in the sapling are
I	physical change
II	chemical change
III	temporary change
IV	permanent change
A	I and II.
В	II and IV.
C	III and IV.
D	IV and I.
Answ	er:
V.	The process of separating miscible liquids with different boiling points is
A	decantation.
В	distillation.
C	sedimentation.
D	separating funnel.
Ancw	or:

vi. The process of beating the stalks to separate grains is called



A	hand picking.
В	winnowing.
C	threshing.
D	sieving.
Answe	er:
vii.	What will be the weight of a box, if its mass is 8kg and the force acting on it is 10 units?
A	8kgf
В	10kgf
C	18kgf
D	80kgf
Answe	er:
viii.	The shrillness of the sound is called pitch. An example of the low pitched sound is
A	whispering.
В	baby crying.
C	bell ringing.
D	whistling.

ix. Frosted glass allows only some light to pass through it because it is

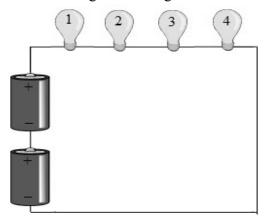


- A a shiny object.
- **B** an opaque object.
- C a transparent object.
- **D** a translucent object.

Answer:....

- x. What could be the total voltage of four batteries if each battery has 1.5 volts?
- A 3.0 volts
- **B** 4.5 volts
- C 6.0 volts
- **D** 7.5 volts

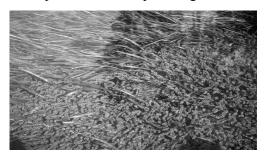
xi. Which bulb will glow the brightest in the circuit below?



- **A** bulb 1
- **B** bulb 2
- C bulb 3
- **D** bulb 4

Answer:....

xii. Hydrilla is a plant that is adapted to grow in the water body.

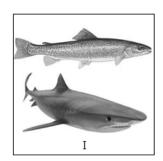


Such type of plant shows the characteristics of a

- A mesophyte.
- **B** hydrophyte.
- C lithophyte.
- **D** xerophyte.

X111.	Which disease is caused by fungus?
A	AIDS
В	conjunctivitis
C	ring worm
D	tuberculosis
Answe	r:
xiv.	The gas produced during photosynthesis is
A	oxygen.
В	nitrogen.
C	hydrogen.
D	carbon dioxide.
Answe	r:
XV.	The untimely falling of leaves and weakening of plants are due to lack of
A	calcium.
В	nitrogen.
C	potassium.
D	phosphorus.
Answe	r:

## xvi. Which of the following groups of animals are amphibians?









A I

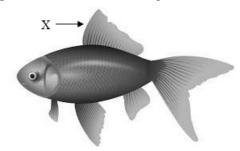
B II

C III

**D** IV

Answer:.....

xvii. The part labelled X in the diagram is



A scale.

B gill.

C tail.

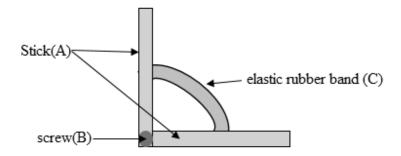
**D** fin.

xviii. The blood vessel that carries blood from heart to lungs is

- A veins.
- **B** arteries.
- **C** pulmonary artery.
- **D** pulmonary vein

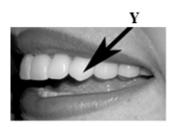
Answer:....

xix. Part C in the figure below can be compared to a



- A jaw.
- **B** bone.
- C joint.
- **D** muscle.

xx. Study the human teeth given below and answer the following question.



What is Y used for?

	1
Α	biting

**B** tearing

C chewing

**D** grinding

Answer:.									
1 1113 W C1	 	 	 	 	 	 			

xxi. Stored energy is also called

- **A** kinetic energy.
- **B** radiant energy.
- C potential energy.
- **D** electrical energy.

Answer:	

xxii. Which pair is the best example of wheel and axle?

- **A** crow bar and knife
- **B** bicycle and crane
- C staircase and axe
- **D** prayer wheel and fan

xxiii.	An imaginary horizontal line that divides the Earth into two equal halves is
A	equator.
В	latitude.
C	longitude.
D	prime meridian.
Answe	or:
xxiv.	The polar regions are very cold because they
A	remain covered with snow.
В	receive light for 24 hours.
C	do not receive direct sunlight.
D	experience night for six months.
Answe	er:
XXV.	Which of the following conditions is <b>NOT</b> required for germination?
A	air
В	light
C	water
D	carbon dioxide
Answe	pr:

**Question 2** [10 Marks] Direction: Fill in the blanks with appropriate word(s). Write the answers in the spaces provided below. i. While conducting a litmus test on lemon juice, the litmus colour changes to . . ii. The water which does not form lather easily with soap is called \_\_\_\_\_\_. Kerosene and water can be separated by using separating funnel and \_\_\_\_\_\_. iii. Bending of light is called \_\_\_\_\_\_. iv. An electromagnet is a \_\_\_\_\_ magnet. V. Fish and duck are examples of \_\_\_\_\_ animals. vi. Leaves of plants are green due to the presence of vii. viii. The animals which have hair on their body, give birth and suckle their young ones are known as

The Law of Conservation of Energy states that energy can neither be created nor be \_\_\_\_\_\_.

The spinning of the Earth on its axis is called \_\_\_\_\_\_.

ix.

X.

Question 3 [10 Marks]

Direction: Match each item in column I against the most appropriate item in column II. Write only the alphabet against the number in the space provided below.

	Column I		Column II	
1	It has padded feet and hump	a.	embryo	
2	It develops into shoot after germination	b.	potassium	
3	It has moist and slimy skin	c.	camel	
4	Micro-organism	d.	yeast	
5	Primary nutrient	e.	frog	
6	The only mammal that can fly	f.	plant	
7	Producer	g.	snake	
8	The process of preparing food by plants	h.	bat	
9	It's body is covered with dry scales	i.	food chain	
10	The feeding relationship between organisms	j.	photosynthesis	
		k.	cotyledon	
• • • •				
• • • •				
• • • •				
• • • •				
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**Question 4** [10 Marks] Direction: Write TRUE or FALSE against each statement in the space provided. Hydrochloric acid is present in our stomach. (......) i. ii. Plants are autotrophs as they can prepare their own food. (.....) iii. Common salt is obtained from the sea by the process called filtration. (......) iv. Sunlight needs medium to travel. (......) Magnetic lines of force always run from south pole to north pole. (.....) v. Series of heart beat felt as jerks in blood vessels when heart pumps is called pulse. vi. (.....) Milk and cheese contain only carbohydrate. (.....) vii. viii. Car is an example of simple machine. (......) ix.

During lunar eclipse, the Moon casts shadow on the Earth. (......

X.

Direction: Answer the following questions as directed and the answers must be written in the spaces provided. The marks for each question are given in the brackets [].

Que	estion 5 [9 N	Marks]
a.	Zangmo needs suggestions to test the nature of a solution besides its taste and corrosiveness.	What
	suggestions would you recommend her to identify the acidic and the alkaline nature of the sol	ution?
		[2]
		· • • • • • • • • • • • • • • • • • • •
••••		
b.	Why do you need to mash flower petals in a mortar and pestle while making an indicator?	[2]
		,
••••		· • • • • • • • • • • • • • • • • • • •

c. Refer the diagram given below and answer the following questions.



i.	What can you conclude about the nature of light from the above figure?	[2]
ii.	Name any <b>TWO</b> media through which light travels.	[1]
d.	Our forefathers used manure in their garden. However, with the development of our configuration of the configurati	•
	farmers now use chemical fertilizers. Do you think Bhutanese farmers should be encounted the chemical fertilizers? Give <b>TWO</b> reasons.	raged to use [2]

		•••••
Que	stion 6	Marks
<b>1</b> .	Study the diagram given below.	
	Sun Day (A) Night (B)	
	Write a short imaginary story about the plants and animals living in position B, if such position Earth remains same for six months.	tion of [3]
o.	Compare physical change and chemical change based on the formation of new substances.	[2]

c.	Name the part of an egg which provides food to the developing embryo.	[1]
d.	The weight of a woman in Gasa is 65kgf. Will her weight increase or decrease in Phuntsholing?	Why?
e.	What is the difference between beam balance and spring balance?	[1]

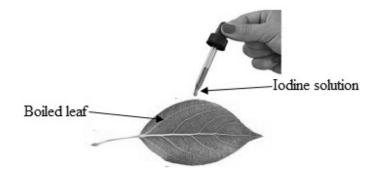
	Rain water is soft water. Do you agree or disagree? Justify with <b>TWO</b> reasons.	[2]
•••••		
• • • • • • • • • • • • • • • • • • • •		

c.	State one similarity and a difference between permanent and electromagnet.	[2]
		• • • • • •
		• • • • • •
d.	What are the <b>TWO</b> ways of increasing the strength of an electromagnet?	[2]
		• • • • • •
		•••••
e.	What do you understand by the term balanced diet?	[1]
		• • • • • •
• • • • • • • • • • • • • • • • • • • •		••••

Que	estion 8	[9 Marks]
a.	Write <b>TWO</b> adaptive characteristics of polar bears.	[1]
		• • • • • • • • • • • • • • • • • • • •
b.	Define habitat in your own words.	[1]
• • • • •		• • • • • • • • • • • • • • • • • • • •
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• • • • •		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
c.	Write one similarity and one difference between a fish and a reptile.	[2]
••••		

d.	How mammals are different from birds? State one difference.	[1]
		• • • • • • • • • • • • • • • • • • • •
e.	Is Bhutanese diet generally healthy? Do you agree or disagree? Support with reasons.	[2]
f.	How is a child different from an adolescent? State <b>TWO</b> differences.	[2]
	How is a child different from an adolescent? State <b>TWO</b> differences.	[2]

Question 9 [9 Marks]



a.	what is the purpose of the above test?	[1]
b.	Why is it possible to separate mixture of two miscible liquids of different boiling points by distillation? Explain.	[2]
b. 	distillation? Explain.	
	distillation? Explain.	
	distillation? Explain.	
	distillation? Explain.	

c.	Study the diagram given below and answer the question.	[1]
	Separating funnel  Oil  Water  Tap  Conical flask	
	What is collected in the conical flask?	
d	Draw a labeled diagram to show the relationship between mass, speed and kinetic energy using a	nile
d.	Draw a labeled diagram to show the relationship between mass, speed and kinetic energy using a of books, wooden ruler and a marble.	a pile
d.		
d.	of books, wooden ruler and a marble.	
d.	of books, wooden ruler and a marble.	
	of books, wooden ruler and a marble.	
	of books, wooden ruler and a marble.	[2]
	of books, wooden ruler and a marble.	[2]
	of books, wooden ruler and a marble.	[2]

e. 	The use of nuclear fuel is unsafe for human beings. Support the statement with a reason. [1]
f.	In the diagram given below, which position does the stone have kinetic energy? [1]
	B

g.	A road has been blocked by a huge stone. What simple machine will you suggest to use to remove	3 IT
	easily?	[1]
		• • •
		• • •