# तन्त्रा में ह्यें न मृते केंश कुष्मश्राप्त प्रमाणिक वार्षे अडह हड आहार स्थापिक क्षेत्र केंग्रिय केंग्



## **Class VI**

#### **COMPETENCY BASED ASSESSMENT TEST**

STUDENT NAME:	ROLL NO:
SCHOOL NAME:	SECTION:
DZONGKHAG:	GENDER:
SCII	ENCE
Reading Time: 15 Minutes	Full Marks: 50
Writing Time: 1 Hour	Year: 2021

# For teacher's use only

Question	Q1	Q2	Q3	Q4		Q	5			Q6			Q	7	
					a.i	a.ii	a.iii	b	a	b	с	a.i	a.ii	b	с
Mark	5	5	5	5	1	1	2	2	2	2	2	2	1	2	1
Mark scored															
<b>Total Score</b>					1 1										

Question			Q	Q9					
	a	b.i	b.ii	С	d	e	a	b	с
Mark	1	1	1	1	1	1	2	2	2
Mark scored									
<b>Total Score</b>									
Final Score									

**IMPORTANT:** Turn over to read instructions.

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. In this booklet you will find **NINE** questions. You must answer **ALL** the questions.
- 2. Answers to all the questions must be written neatly in the spaces provided.
- 3. Do not write during the first fifteen minutes. This time is to be spent on reading the questions.
- 4. You will have **ONE** hour to answer all the questions.
- 5. You will **NOT** be allowed to leave the examination room until the completion of the stipulated time.

(First **FIFTEEN** minutes could be used by the teachers on duty to explain the instructions)

#### **Question 1**

Direction: For each question, there are four alternatives: A, B, C and D. Choose the correct alternative and circle it. Do not circle more than ONE alternative. If there are more than one choice circled, NO score will be awarded.

i. After a theory class on classification and variation, a student collected information on animals from the library as given in the table.

Group A	Group B	Group C	Group D
Trout	Sparrow	Anaconda	Toad
Shark	Crow	Viper	Salamander

In the above table, the sequence of animal classification from A to D represents

- A fishes, birds, amphibians and reptiles.
- B reptiles, amphibians, fishes and birds.
- C birds, fishes, reptiles and amphibians.
- D fishes, birds, reptiles and amphibians.
- ii. Study the diagram given below and answer the question.





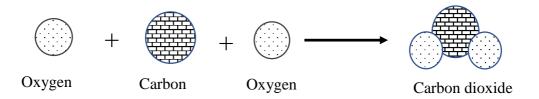


Dandelion

The most appropriate agent of seed dispersal in these plants is

- A wind.
- B water.
- C insects.
- D animals.

- iii. A goldsmith dipped a ring in a certain solution. After an hour, the ring became shiny and clean. The nature of the solution used by the goldsmith to clean the gold ring is
  - A a basic solution.
  - B an acidic solution.
  - C a neutral solution.
  - D an amphoteric solution.
- iv. Study the visual representation of a chemical combination of atoms.



Which of the following is the correct combination of the atoms in the above chemical reaction?

- A 1 atom of carbon combines with 2 atoms of oxygen to produce 1 molecule of carbon dioxide.
- B 2 atoms of carbon combine with 1 atom of oxygen to produce 1 molecule of carbon dioxide.
- C 1 atom of carbon combines with 1 atom of oxygen to produce 1 molecule of carbon dioxide.
- D 2 atoms of carbon combine with 1 atom of oxygen to produce 2 molecules of carbon dioxide.

V.	While travelling	from Laya to Phuentsholing, Sonam's weight increased. Which of
	the following wo	uld you choose in order to explain to Sonam about the changes in
	his weight?	
	I. increase	in gravity
	II. decrease	e in gravity
	III. increase	in altitude
	IV. decrease	e in altitude
	A I and III	
	B II and IV	
	C I and IV	
	D II and III	
_	estion 2 ection: Fill in the	blanks with appropriate words.
i.	The streamlined	body of airplanes helps to reduce air
ii.		oor plants in their rooms. This helps to purify the air through the
iii.	We need to wash	water boilers frequently to remove the white coatings formed due to
	the deposition of	calcium and salts.
iv.		oking oil and water can be separated by using
v.	A rolling stone p	ossess energy.

Question 3 [5]

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
i	Tearing a piece of meat	a	virtual image
ii	Scattering of seeds to different places	b	rubber
iii	Mixture of <i>ara</i> and water	С	premolars
iv	Insulating electrical wires	d	canine
V	Rear mirror of the car	e	distillation
		f	dispersal

i	
ii	
iii	
iv	
V	

Question 4 [5]

Direction: Write TRUE or FALSE against each statement in the space provided.

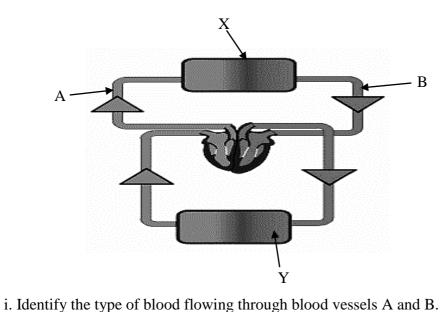
i.	Generally, patients are advised to consume more fruits and vegetables as these
	are protective foods. ()
ii.	For the development of an eco-pond, the group of plants you would choose is
111.	lithophytes. ()
	nuiopiiytes. ()
iii.	The sound produced by a guitar is due to the vibration of air.
	()
•	A sleep on the Forth committee or anti-more small alt for more than 24 hours
iv.	A place on the Earth experiences continuous sunlight for more than 24 hours.
	This phenomenon is called polar day. ()
v.	When the Earth comes in a straight line between the Sun and the Moon, solar
	eclipse occurs. (

#### Section B (30 Marks)

Direction: Answer the following questions in the spaces provided. The marks for each question are given in the brackets [].

## Question 5 [6]

a. Study the schematic diagram of the human circulatory system given below and answer the questions that follow.



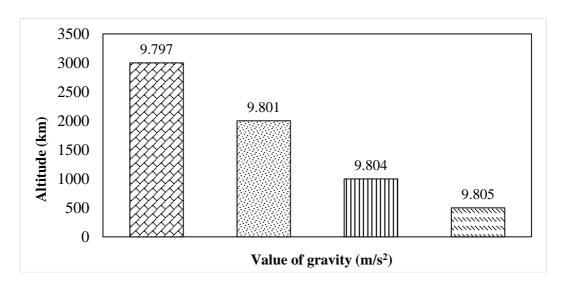
i. Identify the type of blood flowing through blood vessels A and B.	[1]
	_
ii. Name the parts labelled X and Y in the diagram.	[1]
iii. Identify the TWO types of circulation shown in the diagram.	[2]

b.	Green leaves are called 'food factories' of a plant. Justify.	[2]
Que	estion 6 [6]	
a.	A farmer transplanted eggplants on a plot of land. After two months, some plants became weak and their stems turned purple, while others developed yellow leaves.	[2]
	Which TWO nutrients would you suggest to the farmer to use to address such an	
	issue?	
b.	Camels have padded feet which enable them to walk on sand. Write any other <b>TWO</b>	[2]
	characteristics which help them to survive in the desert.	[-1

	grasshopper, broccoli, hawk, sparrow,	)
(	Simporopper, or occous, numer, spurion,	
16	estion 7 [6]	
16	A list of symbols of elements are given below.	
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b.	During photosynthesis, green plants prepare their own food using carbon dioxide	[2]
	and water in the presence of sunlight and chlorophyll. What change is it? Justify.	
c.	ORS is provided to treat diarrhoea. Name the solute and solvent that you would use	[1]
	to prepare ORS at home.	
Que	estion 8 [6]	
a.	A woman uses a winnow at her house to separate a mixture. What are the	[1]
	characteristics of the components in the mixture which can be separated by	
	winnowing?	1
		  -

b. Study the following graph and answer the questions that follow.



i. What is the relationship between altitude and gravity?

[1]

ii. What is the approximate value of gravity when the altitude is 2000 kilometers?	[1]

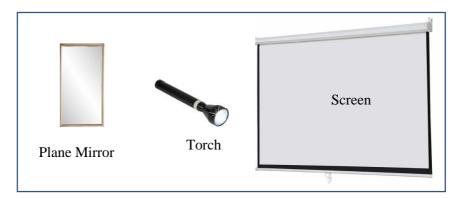
c. Explain the energy conversion taking place when the television is turned on. [1]

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d.	Magnets are used in different appliances. Mention any TWO devices where magnets	[1]
	are used.	
e.	In cold places, it is better to grow vegetables inside a greenhouse. Justify with <b>TWO</b>	[1]
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e.		[1]
е.		[1]
e.		[1]
e.		[1]
e.		[1]

# Question 9 [6]

a. Design an experiment to demonstrate **ONE** of the properties of light using the [2] following materials.



b. Mention **TWO** conditions which make it difficult for people to settle on the Moon. [2]

c.	Draw a model of the Earth and label the equator, axis, north pole and south pole.	[2]