Provincial Department of Education, Northern Province



Diagnostic Test -2021

Grade: 07 Science Time: 2 Hours

Part I Underline the most suitable answer for the following questions.

1. Which of the following animals do not possess vertebral column?



- 2. The plant which has a root for exchange of air with the atmosphere?
 - 1) Pandanus

3) Mimosa

2) Avicennia

- 4) Orchid
- 3. Which one of the following is not a feature of monocots?
 - 1) fibrous root

3) parallel venation

2) five petals

- 4) single cotyledon
- 4. When a glass rod is rubbed with silk, the charge acquired by the silk is
 - 1) positive charge

3) no charge

2) negative charge

4) partly positive and partly negative

5. Which of the following is a cell that generates electricity by a chemical process?



1)



2)



3)

4)

- 6. The colour of phenolphthalein in acidic medium is
 - 1) Pink

3) Red

2) Blue

- 4) Colurless
- 7. Which one of the following is not a base substance that is used in day to day life?
 - 1) lime water

3) salt solution

2) baking powder

- 4) milk of magnesia
- 8. Which of the following animal groups have a streamlined body?
 - 1) Fishes, Reptiles

3) Fishes, Aves

2) Reptiles, Aves

- 4) Amphibians, Fishes
- 9. The main elements present in the Earth's core are
 - 1) Iron, Aluminium

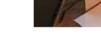
3) Magnesium, Silicon

2) Iron, Nickel

- 4) Magnesium, Iron
- 10. What will be the angle between two mirrors for getting 5 images?



- 3) 60°
- 2) 45 °
- 4) 90 °



- 11. Which mirror does not produce an object size image?
 - 1) convex mirror

3) plane mirror

2) concave mirror

- 4) none of the above
- 12. The image formed by a plane mirror is always
 - 1) obtained on a screen

3) formed in front of the mirror

2) Smaller than the object

4) virtual

13.	The u	unit of electric energy is							
	1) A	mpere	3)	Joule					
	2) W	att	4)	Farad					
14.		h part of the compound microscope tiewing area?	that c	controls the inte	nsity of light entering				
	1) mirror		3)	Diaphragm					
	2) co	onvex lens	4)	Stage					
15	The instrument used in bacterial research is								
	1)	electron microscope	3)	simple microso	cope				
	2)	compound microscope	4)	kaleidoscopes					
16.	The	thin layer of earth is							
	1)	inner core	3)	crust					
	2)	mantle	4)	outer core					
17.	Whi	hich one of the following animals do not show camouflage?							
	1)	Leaf insect	3)	Moth					
	2)	Caterpillar	4)	Magpie					
18.	Whi	Which device generates electricity as in the graph given below?							
		21	(s))6	වූ ව				
	1)	Button cell	3)) Dynamo					
	,	Simple cell	4)	•					
10		tive and negative terminal of simple c							
17.		Copper, Zinc	3)	-					
		Copper, Iron	4)						
20									
20.	The instance where light energy is converted into chemical energy is 1) cooking with solar cooker								
	2)	during photosynthesis in plants							
	3)	when the candle is lit							
	4)	generation of electricity from solar par	nel						
					$(20 \times 2 = 40 \text{ Mark})$				

Part - 02 Anawer all questions.

01) Mark whether the following	ng statements are true (() or false (x).	
1. Gardenia is a plant w	hich can produce flowe	rs.	()
2. In living organisms, co	ells combine to make or	gans.	()
3. Respiratory roots are	found in Mangrooves (I	Kinnai).	()
4. Lemon and Kerosene	are the common house	ehold acidic substances.	()
5. We can not use solar	panel, when there is no	sunlight.	()
6. A glass rod rubbed w	ith silk gains positive (+) static electric charges.	()
7. Frog does not have v	ertibral column.		()
8. Conversion of one for	m of energy to another	form of energy is called en	ergy
transformation.			()
9. On land, earth crust's	thickness is about 351	km.	()
10. Concave mirrors are	used in reflecting telesc	copes	()
			$(10 \times 1 = 10 \text{ marks})$
02) Fill in the blanks using th	e words given.		
 Parallel beam of li Potential and kine By 	is used to obse ght can be etic energy together is ca process most of the	by a convex mirror. alled asalled as animals escape from preda	
	turnsund		(5 x 2 = 10 marks)
		dinal section of a flower.	
A) 1). Nane the parts 1 –	8.	q	ලගාපන
/8		1	
1	7	2	
Carry		3	
3	<u> </u>	4 5	
		5	
	-	7	
3"		3	(4 Marks)
4/	3		
2)What are the parts of	androecium?		
			(1 Mark)
3) What is the function of	of sepals?		
			(1 Mark)

	_
1	つ /
ł	≺.

Α



В



С



1. Mention the mode of dispersal of A, B and C?

A,C,C	(3	marks)
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2. Give one adaptation found in A for easy dispersal?

(1 mark)

(Total 10 marks)

04) Match.

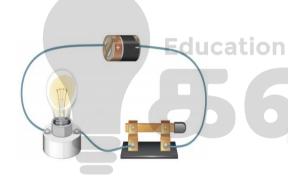
- 1. The energy found in water at a higher elevation.
- 2. Energy in running water.
- 3. Produces virtual and real images.
- 4. Used as a simple microscope.
- 5. Used as a side mirrror in vehicles.

- A. Concave mirror
- B. Convex mirror
- C. convex lens
- D. Potential energy
- E. Kinetic energy

 $(5 \times 2 = 10 \text{ marks})$

05) A)

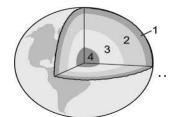
A





2. Indicate the direction of current flow in A? (1 mark)

B) 1) Diagram given below is the inner nature of earth. Name the parts 1-4.



3.

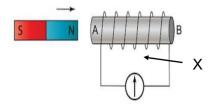
4.

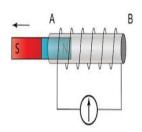
(4 marks)

(Total 10 marks)

06)

A)





1. Identify the instrument (x), which is connected with the coil?

(1 mark)

2. What is your observation, when one end of the magnet bar is moved into the coil?

(2 marks)

3. What is your observation, when one end of the magnet bar is moved out of the coil?

(2 marks)

4. What is your observation, when the magnet is moved faster within the coil? (1 marks)

B)



Education

1. What is your observation, when the salt solution is heated?

(2 marks)

2. Which is the salt found in highest percentage in sea water?

අධ්යාපන_(2 marks)

(Total 10 marks)

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