

### පළාත් අධ්නපන දෙපාර්තමේන්තුව - උතුරු මැද පළාත மாகாணக் கல்வித் திணைக்களம் - வட மத்திய மாகாணம் DEPARTMENT OF EDUCATION – NORTH CENTRAL PROVINCE



### SECOND TERM TEST - 2019

Gra	ade
7	

SUBJECT - Science

School : ....

Name of the Student/ Index No : .....

Time: 2 ½ hrs.

#### Part I

Answer all the questions.

Underline the most suitable answer

- 01. A plant which does not bear flower is,
  - (1) Curry Leaves

- (2) Drynaria (Benduru)
- (3) Long bean

- 02. A part of a plant that does not belong to the shoot system,
  - (1) Apical bud

(2) Fruit

- (3) Top root
- 03. Following features could be observed in a plant of which the root system has been removed.
  - · Veins spread as a net throughout the leaf
  - · Flower with four petals

That plant may be,

(1) Monocot flowering plant

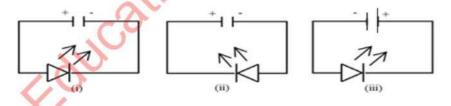
(2) Dicot flowering plant

- (3) Non flowering plant
- 04. The magnification of eye piece of a microscope was x 10 and the objective lens is X10. The magnification of the microscope is,
  - (1) 1

(2) 10

(3) 100

05. Select the LED that lights up.



- 06. Tissues which carry food and minerals in a plant are,
  - (1) Xylem, Phloem

(2) Phloem, Xylem

(3) Phloem, Pith

- 07. The reason for using water when preparing saline water is its,
  - (1) Coolant property

(2) Transparency

- (3) Solvent property
- 08. A solution in a bottle without a label in the laboratory gives following colours with litmus.

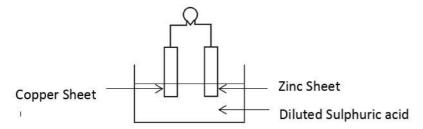
Type of litmus	Given colour
Red litmus	Blue
Blue litmus	Blue
Blue litmus	Blue

That Solution is,

(1) Sulphuric acid

(2) Sodium Hydroxide

- (3) Sodium Chloride
- 09. Following is a set up of a simple cell.



Negative terminal of the above cell is,

(1) Copper sheet

- (2) Diluted Sulphuric acid
- (3) Zinc Sheet

- 10. Which one of the followings generates Alternating current?
  - (1) Dry cells
  - (2) Dynamo
  - (3) Lead acid accumulator
- 11. Select the energy transformation way that occurs when electricity is generated by wind.
  - (1) Potential energy Electrical energy
  - (2) Kinetic energy Electrical energy
  - (3) kinetic energy ———>Potential energy
- 12. Following properties could be observed in an image formed by a certain mirror.
  - Cannot be obtained on to screen.
  - · Smaller than the object
  - Erect

That mirror is a.

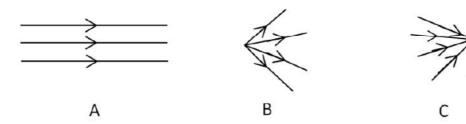
(1) Convex mirror

(2) Plane mirror

- (3) Concave mirror
- 13. What is the correct ascending order of sound energy transmission?
  - (1) Solid, Liquid, Gas

- (2) Gas, Liquid, Solid
- (3) Gas, Solid, Liquid

- 14. On which tectonic plate is Sri Lanka situated,
  - (1) Philippine tectonic plate
- (2) Antarctica tectonic plate
- (3) Australian tectonic plate
- 15. Select the mirrors, from which the following light beams could be obtained.



(1) A - Plane, B - Convex, C - Concave

(2) A - Concave, B - Convex, C - Plane

(3) A - Plane, B - Concave, C - Convex

Page 2 of 8 Grade7 - Science

16.	The Unit of measuring atmospheric pres	sure is,	
	(1) Joule	(2) Millibar	(3) Kelvin
17.	Use of this equipment is,		
	(1) To store static electrical charges.		
	(2) To identify static electrical charges.	₩┰┚	
	(3) To generate static electrical charges	11	
18.	Select the layers of the atmosphere relev	rant to the following incidents.	14
	<ul> <li>Place where the International Sp</li> </ul>	pace Station is located	
	• The cool layer of the atmospher	e	.0
	<ul> <li>Where the ozone canopy is loca</li> </ul>	ted	<b>9</b> *
	(1) Thermosphere, Mesosphere, Stratos	phere	
	(2) Mesosphere, Thermosphere, Stratos	phere	
	(3) Thermosphere, Stratosphere, Mesos	phere	
19.	Only invertebrates are included in,	9	
	(1) Dolphin, Ichthyophis	(2) Salamander, Lizard	(3) Prawn, Star fish
20.	An animal who uses the streamlined sha	pe for existence is,	
	(1) Fish	(2) Lion	(3) Lizard
	iO'x		
	C.O.L.		
	Edincylle		
	*		

Page 3 of 8 Grade7 - Science

# Part – II

## Answer only 5 questions including question no. 1

01. II t	ne statements are correct put (* ) it incorrect put (x) in the given brackets.		
i.	When go upwards in the stratosphere, temperature decreases.	(	)
ii.	The coolest layer in the atmosphere is mesosphere.	(	)
iii.	Vibration is not compulsory to produce a sound.	(	)
iv.	The resolving power of the compound light microscope is 500 times than the naked human ey	ye. (	)
V.	Camouflage is used to find food by animals.	(	)
vi.	The amount of electrical charges that can be stored in a capacitor is measured by Farads.	(	)
vii.	Sound travels through air more efficiently.	(	)
viii.	Larynx is the common part for both respiratory and digestive systems.	(	)
ix.	To increase the efficiency of dynamo, the number of turns of the coil should be decrease.	(	)
X.	Direction of the current could be found by center – zero ammeters.	(	)
xi.	Erect, real images are formed by plane mirrors.	(	)
xii.	Curve mirrors are used in side mirrors of vehicles to see rare view.	(	)
02. Sel	lect the correct words from the brackets and fill the blanks.		
(wa	ater, cells, androecium, nitrogen, a medium, mechanical, stilt roots, solvent property, crow, tele	evision,	
Ich	thyophis, electrical cell)		
i.	are important as a support to the stem.		
ii.	From the composition of the atmosphere is the most abundant compone	ent in th	e
	troposphere.		
iii.	The functional unit of the organisms is		
iv.	Anther is a part of		
v.	Breaking of food in to smaller particles by teeth is the digestion.		
vi.	is needed to travel sound.		
vii.	Electricity can be generated by chemical reactions in		
viii.			
ix.	For the existence of life, streamlined body shape is helpful for		
X.	Sugar is produced by removing the in the sap of the sugar car	ie.	
xi. Static electrical charges can be experienced by the			
xii.	is a vertebrate.		
03. Following experiment is conducted by a grade 7 student to generate electricity, to identify the function of			f
dynamo.			
190			

84	A.		
	1.	Mention an observation of this experiment.	(01 Marks)
	ii.	What is the method of generating electricity in a conductor when magnetic field is cutting	
		conductor?	(01 Marks)
	iii.	Write down two changes that can be made to increase the efficiency of a simple dynamo	(02 Marks)
	iv.	Mention 02 equipment which generate simple current.	
	v.	2	(02 marks)
]	B. V	Vrite down the energy transformations for following instances.	
	i.	Generating electricity by a solar cell	
	ii.	Generating electricity by a dry cell.	
	iii.	Producing sound from a radio	******
04.	iv.	Generating electricity from wind  /////  Drinking Straw	
	А. Т	wo drinking straws are charged by rubbing with a polythene and keep closer as in the above	figure.
	i.	What is your observation?	(01 marks)
	ii.	What is the conclusion of that observation?	(01 marks)
	iii.	What is your observation if the rubbed piece of polythene keep closer to the drinking straw	? (01 marks)
	iv.	Mention the convulsion you obtained there?	(01 marks)

B.



i.	Name the 02 zones in the screen.	(02 marks)
	A	
	В	
ii.	To observe the zones clearly, should the torch be moved towards? Or out wards?	(01 marks)
iii.	Write down two instances where convex and concave mirrors used in day to day life.	(02 marks)
	Concave mirrors-	
	Convex mirrors -	
C. F	Following is a model of a cross section of the earth.	
	Y Z	
	Name X, Y and Z	
2	C	
7	·	
Z	Z	
05. A.	A B	
i.	Name the types of roots in A and B	(02 marks)
	A	
	В	
ii.	Write down a function in each A and B	(02 marks)
	A	
	В	

111.	(earthworm, turtle, spider, shark)		
	a. Vertebrates		
	Invertebrates		
	b. What is the reason for the above		(01 marks)
			***************************************
В.	B	W.ec	MC614
i.	Name the A,B,C parts in the above	· O	(03 marks)
	A		
В			
	C	Q	
ii.	What is the type of lens used in th	at microscope?	(01 marks)
		<u> </u>	
iii.	What is the importance of D?		(01 marks)
06. Plant	and animal bodies are created with	the collection of cells.	
A.	Of		
i.	i. Name 02 organs in the human body.		
ii.	Name 02 systems in the plant body		(02 marks)
	<b>/</b>		
В. І	ndicators are used to identify acid b	ases in the laboratory.	
i.	Name 02 natural indicators.		(02 marks)
ii.	Complete the following table.		
	Indicator	Colour with acidic substance	Colour with basic substance
3	(a)	Red	Blue
	Phenolphthalein	(b)	Pink

Red

Methy orange

C.		
i.	What is the chemical substance dissolve in sea water, which makes it salty in taste?	(01 marks)
ii.	How do fish obtain oxygen for respiration through gills needed for respiration?	(01 marks)
iii.	What is the method used to classify organisms based on their external features.	(01 marks)

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Page 8 of 8 Grade7 - Science