මධාව ත් අධාාපන දෙපාර්තමේ මධා අධාාපන දෙපාර්තමේ මධ දිරි ක්රීඩාපන දෙපාර්තමේ	න්තුව மத்திய மாகாண අ மத்திய ண! න්තුව மத்திய மாக டி ண கல்வித் திணைக்	reserved நிற்ற இது நிற்ற இது இது இது நிற்ற இது இது இது நிற்ற இது இது இது நிற்ற இது இது இது நிற்ற இது	ාස්ස611 ග් පළාත් අධාාපන (දෙපාර්තමේන්තු: දෙපාර්තමේන්තු: දෙපාර්තමේන්තු: දෙපාර්තමේන්තු: දෙපාර්තමේන්තු:	
Grade: 08	34 E I				
Sicence - I Time : 2 Hour					
Name / Index N	0:	••••••	•••••	•	
Part - I			• Ans	swer all the questions	
l) X → Grass Hop	oper → Chameleon				
Select the most s 1. Frog	suitable organism that s 2. Aquatic plant	should be at x 3. Marine plant	4. Grass		
2) Not an example f 1. Potato	or tuberous root 2. Carrot	3. Sweet potato	4. Radish		
3. Microorganism4. Microorganism4) What is the type of the control of	2. Kinetic estatement about pure in type of atom	rties of some matter effects ects due to change in its energy 3. Potential matter 2. Compose	-		
A. Even though the planet changes B. There is no any	ne position of a star relative with the time	corded the followings. So the constellation energy sources to observe beserved in planets 3. A and C	is not changing bu	at the position of a	
7) Which process is 1. Excess rain 3. Removal of for	·	th human in the occurred 2. Irregular 4. Irregular	land fillings		
 Having particles Having a space a Discontinuous Rising of ink th	nature of matter	om each other 2. C board chalk4. Compres	Continuous nature of a gas	of matter	
1. Ampere	2. Volt	3. Joules	4. Ohr	ms	



_	food spoilage taste of the food action of food wi		additives. Which	statements are con	
	green plants	nich is essential	for photosynthe	sis	
12) Using what we 1. Fixed value re 3. Diode		urrent flow acc	ording to the nee 2. Bulb 4. Light sensi		
2. Located in the	nto the kidney three abdominal cavity positioned little h	ough renal vein			-
2. The brightness 3. The brightness	ect statement abor show same bright s of all bulbs are s s of all three bulbs show same bright	ness while bulk ame s are different	C has less brigh	<u>B</u> ⊗	⊗ C
15) Which animal 1. Leech	possess radial syr 2. Earthworn		3. Hydra		4. Bivalve
				. What can be X?	vas added to the same 4. Distilled water
17) Which zone co	ontains unburnt wa 2. Zone B		one C	4. Zone	D A B
18) Which is used 1. Magnetic product of	luct of electricity	2. C	hemical product ight product of el	-	CD
19) Magnetism is, A. A contact ford 1. A	ee B. Ro	emote force 3.C		act or remote force any of above	e
20) Which cannot 1. Change in stat 3. Emission of g	e	2. E	nange? mission of heat hange in colour	∏ <u>⊷</u>	— Thisel funnel
2. The liquid lev3. Water inside the	observe after the gel inside the thistle the beaker and the thistle funnel to the linside thistle fu	e funnel increas thistle funnel w urns purple	ses	ites?	Water Salt with Condis Egg membrane
22) Not an excreto 1. Skin	ry organ 2. Anus	3. L	ungs	4. Kidneys	



23) Select the correct statement 1.Music is created through the regularization 2. The frequency of a can be changed 3. The frequency f the biggest wire 4. Human ear is audible to any frequency for the statement of the statement	ed by changing the length of it in the guitar is high	
24) Which processes are responsible to A. Less consumption of water C. Smoking and taking liquor 1. A and B 2. A and C	for renal stones? B. Consumption of salty foods free D.Addition of heavy metals and to 3. B and C 4. C and D	quently oxic substances to the body
 25) Select the hypothesis 1. The clock might be not working of a copper sulphate turns 3. The frequency of a copper wire is 4. During a chemical reaction the management 	blue with addition of water s 20 hertz nass stays as a constant Part - A	
Answer all the three questions 01. A. Given below are some Conste		
$R \rightarrow S \rightarrow T$	V W	
	A) II (
i. Name S	1	(1 Marks)
ii. What is the brightest star	in IT9	
ii. What is the originest star	III O:	(1 Warks)
iii. What is the main differen through a telescope?iv. The tilting is responsible	for the occurrence of seasons on the earth.	a planet when observed(1 Marks) Give another reason
v. Name a star pattern that i	s used to identify the direction of the Earth	that is not mentioned (1 Marks)
vi. What is the name given to motio of sun?	o the star patterns which is used to describe	e the apperent (1 Marks)
D. Circum diagrams absence a most of a	a{	The second secon
B. Given diagram shows a part of a i. Name a and b	(2 Marks)	
ii. Give a function of skin	(1 Marks)	
	ent for the colour in human skin? (6 Marks)	
O2. A. Adult Mosquito	An incomplete diagram of mosquitos life i. Name the stages A, B and C	cycle is given below (2 Marks)
ii. What is the name given to	o the life cycles having physiologically diff	erent stages? (1 Marks)
jij. Name an insect that can h	be seen in household who shows incomplete	 e metamorphosis (1 Marks
	_	
iv. Name the sensitive stage	in the life cycle of turtles which are having	a threat to extinct (1 Marks)
I.		· · · · · · · · · · · · · · · · · · ·



	В.	i.	Music can 1	be created usin	g the opening a	and closing of th	e holes in a f	lute. Give	reasons for it
		ii.				ed using music	•••••		(1 Marks) (1 Marks)
	C.					n a classroom re	garding comp		` /
			Which can be		B Solution A and B if	both of them a	C Te having sam	_	(1 Marks) rticles (1 Marks)
)3.	A.T			n are about so	me living organ	isms found by a	group of stu	ident in an	oceanic
				1					(Kirala)
		Tui	rtle	nerris	Jelly fish	sea anemani	vatakeya	Bivbalve	sònaratia
		i.	Name and a	animal belongs	to group Anne	lida			(1 Marks)
		ii.		nal cannot do l					(1 Marks)
		iii.		nal bears a vert	tebral column?				(1 Marks)
		iv.				b. Name a plant			
			a			b			(2 Marks)
	B.	Giv	ven below is	about some re	adings obtained	l during and exp	eriment		
			No. Cells	Volt meter Reading		f Illumination	.	<u> </u>	
			1 2	1.5 3.0		ek w Brightness	$\bigvee \bigvee$)	
			3	4.5		gh Brightness	'		
		i.	What is the	relationship be	etween the num	ber of cells and	the voltmete	r reading	(1 Marks)
		ii.	_	•	ting cells to a c		••••••	••••	(1 Marks)
		iii.	If you want	to find the rel	ationship betwe	een the brightnesshould be conne	ss of the bulb		arrenct (1 Marks)
	C.		. 071.1	1 1		ch factor is abserusted	nt in the test	tube, if the	e nails are
	C	ocoi	nut Oil Layer						(1 Marks)
		Cl	Hot Wat leaned Iron N			e a strategy usec			in engines (1 Marks)

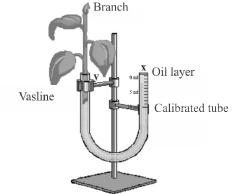


Part- **B** • Answer only three questions

- 01. A. The setup is used to observe the transpiration process in the laboratory
 - What is meant by transpiration? (1 Marks)
 - ii. Initially if the level in the X is 0ml and after 5min 10ml is shown, find the rate of transpiration

Volume of Transpirated water If Rate of Transpiration= Time Taken

Calculate the rate of Transpiration (2 Marks)

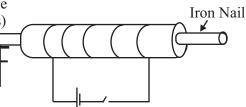


- iii. Give an adaptation shown by plants to reduce the transpiration(1 Marks)
- iv. Give one difference between guttation and transpiration (1 Marks)
- B. The give setup can be used to make an electromagnet
 - i. How the current should be send through the circuit? (1 Marks)
 - ii. Name the instrument that can be used to identify the magnetic field created around the iron nail (1 Marks)

iii. Draw a diagram to show the magnetic field lines that can be seen around

a bar magnet (2 Marks)

iv. Give two reasons for the loss of magnetic power in a magnet (1 Marks)



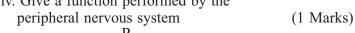
Following ray diagram shows the formation of Earth Shadow.

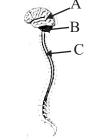


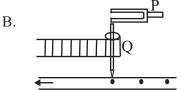
- Name the zones a and b
- ii. If the moon comes to the zone b,
 - a. In which colour the moon is visible?
 - b. What is the name given to that phenomena

(2 Marks) (1 Marks) Agaram.LK - Keep your dreams alive

- (1 Marks)
- iii. A person on the earth will see only one side of the moon every time. Give the reasons for that (1 Marks)
- 02. A. part of human nervous system is given below
 - i. Name A and C (2 Marks)
 - ii. Give a function performed by B (1 Marks)
 - iii. Name the protective layers that can be seen around, B and C
 - iv. Give a function performed by the







Paper strip at Constant speed

When a vibrating object is kept by touching Q, dots are drawn accordingly in the given strip

(1 Marks)

- i. What is named as P? (1 Marks)
- ii. If 240 dots were recorded in 3 seconds, find the frequency of P (2 Marks)
- iii. If a longer arm and shorter arm of device P is used to perform the experiment, which will show more dots on the paper? Give reasons for your answer (2 Marks)

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C. Given table is about some properties in liquids

	A	В	С	D	Е
Boiling Point /C ⁰	882.9	2595	350	100	- 162
Melting point /C ⁰	97.8	1083	120	0	- 182.5
Ductility	\checkmark	✓	×	-	×
Malleability	\checkmark	✓	×	-	×
Density	971	8900	900	1000	475
Electric conductivity	✓	√	×	×	×

i. Which liquid exist as a liquid in room temperature?

(1 Marks)

- ii. Which mater is not suitable to make wires even though it can conduct electricity?(1 Marks)
- iii. Name two matter which can float on D

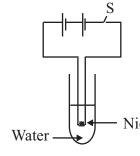
(2 Marks)

iv. Which material can exist as a gaseous nonmetal?

(1 Marks)

03. A.

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When the switch is closed, it is observed that the water is heated.

i. Which product of electricity is shown here?

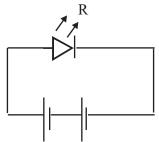
(1 Marks)

ii. Give the energy conversion occur here

(1 Marks)

- iii. Name an appliance uses this principal to operate
- (1 Marks)

Nichrome Coil



- iv. Given below is a circuit diagram used to demonstrate the light product of heat
- a. Name R

(1 Marks)

- b. How many dry cells are needed to operate R (minimum number)
- c. Give two advantages of using R instead of a filament bub

(2 Marks)

(1 Marks)

What is meant by a natural disaster?

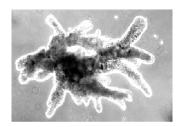
- (2 Marks)
- Name a natural disaster that can occur in hill areas due to excess rain
- (1 Marks)

iii. Give two human activities which leads to drought conditions

- (1 Marks)
- iv. Give a precaution you can take to prevent lightening accidents

- (1 Marks)

C.



- i. Name the given microorganism (1 Marks)
- ii. Give a disease that can be caused by microorganisms belong to the group of the above said organism (1 Marks)
- iii. What is the mechanism used by this organism
 - to remove excretory products from the body

(1 Marks)

Page 06 Science - Grade 08



04. A. The table is about some observations gained by some students during an experiment

<u>Observation</u>

- P. Mixing Sodium Chloride and Led Nitrate Formation of White precipitate
- Q. Burning of the substance X Variation of Gas bubble, Formation of Water vapor
- R. Heating of Iodin Crystal Formation of Iodin vapor
- i. In which system there is a mass difference between the reactants and products, if done in an open system?

(1 Marks)

(2 Marks)

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- ii. What are the chemical reactions from given instance.iii. If the gas produced in Q is bubbled through lime water, it turns milky white.
- What could be the gas? (1 Marks)
- iv. Name the instance where a sublimation has occurred (1 Marks)
- B. We use different methods to prevent the spoilage of food as it make the food unsuitable for consumption
 - i. Name the two main microorganisms responsible for food spoilage (2 Marks)
 - ii. Give a traditional method of preserving food (1 Marks)
 - iii. Briefly explain how food is preserved through freezing (2 Marks)
 - iv. Give an example for "p" instance (1 Marks)
- C. Many things can be observed in the night sky
 - i. What is meant by a geo satellite (1 Marks)
 - ii. Who is the person to say about communication satellite for the first time? (1 Marks)
 - iii. Name a planet which has similar rotational time just like the Earth (1 Marks)
 - iv. Name a planet with a gaseous surface (1 Marks)

* * * *

