

PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE SECOND TERM TEST - 2019

Grade 08

Name / Index No. :

SCIENCE

Two Hours

Part I

• Answer all the questions on the paper it self. One mark is allocated for each.

• Underline the most suitable answer from question number 1 to 25.

- 01. What is the correct answer which contains only the materials that attract to a magnet?
 - (1) Copper and Gold (2) Graphite and Copper
 - (3) Iron and Chromium (4) Iron and Gold

02. Select the answer with the plants only doing their propagation by roots,

- (1) Jack and Breadfruit (2) Curry leaves and "Belli"
- (3) "Belli" and Jack (4) Mango and Curry leaves
- 03. The factors mentioned in the fire triangle are,
 - (1) Heat, Oxygen, Water (2) Oxygen, Water, Heat
 - (3) Heat, Fuel, Water (4) Heat, Fuel, Oxygen
- 04. Choose the type of infections caused by viruses and bacteria respectively.
 - (1) Measles and Tuberculosis (2) Leprosy and Dengue
 - (3) Leprosy and Measles (4) Malaria and Leprosy
- 05. Select the category of the living organism shown in the figure.
 - (1) Bacteria (2) Fungi
 - (3) Protozoa (4) Algae

06. An example for the matter is,

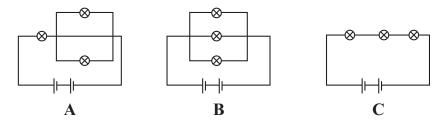
- (1) Sound (2) Light
- (3) Air (4) Heat
- 07. The following characters can be observed of an animal which found form a field visit.
 - A Body consists with segments.
 - B Body is bilaterally symmetrical
 - C Body possesses an external skeleton.

The invertebrate animal group that the above mentioned animal can be included is,

- (1) Annelida (2) Mollusca
- (3) Cnidaria (4) Arthropoda

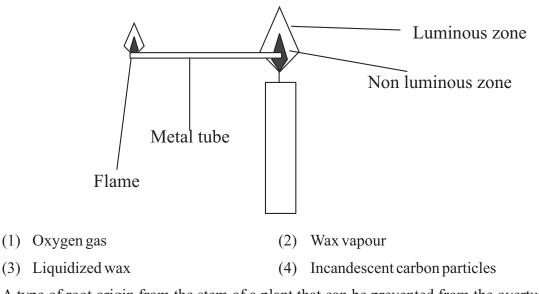


- 08. A compound containing with sulphur is,
 - (1) Copper sulphate (2) Sodium Chloride
 - (3) Calcium Carbonate (4) Glucose
- 09. The compound that **cannot be** found in the urine of a healthy person is,
 - (1) Urea (2) Water
 - (3) Uric acid (4) Glucose
- 10. Here are three circuits built with identical electric cells and bulbs.



The answer which shows the ascending order of the brightness of bulbs is,

- (1) A,B,C (2) C,B,A (3) B,A,C (4) C,A,B
- 11. An extra flame is created when a metal tube was inserted to the non-luminous zone of the candle flame. What is the substance of the candle flame which caused the above effect?



- 12. A type of root origin from the stem of a plant that can be prevented from the overturning of the plant is,
 - (1) Proproots (2) Stilt roots
 - (3) Respiratory roots (4) Tap root

13.	Thr	ee statements abo	ut the masses of the sa	mev	olume of water a	nd sal	t solution are given below.				
	А	A - The mass of the salt is high.									
	В	- The two masse	es are similar to each.								
	С	- The mass of the	e water is low.								
	The	he correct statements are,									
	(1)	A,B	`(2) B, C	(3)	A,C	(4)	A, B, C				
14.	Apl	ant with reticulate	e venation is,								
	(1)	Bamboo		(2)	"Kithul"						
	(3)	Jack		(4)	Coconut						
15.	The	physical characte	er used of the oxygen v	when	stored in a cylind	ler is,					
	(1)	Lightness		(2)	Compression						
	(3)	Low density		(4)	Expansivity						
16.	The	correct order of	the animals which o	conta	ining a dry skin	with	scales and grandular skin				
	with	out scales is,									
	(1)	Tortoise, Frog		(2)	Toad, Salaman	der					
	(3)	Frog, Tortoise		(4)	Toad, Cobra						
17.	The	correct order of th	ne symbols below,								
			<u> </u>				—————				
	(1)	Resister, Capacit	tor, Bulb	(2)	Resister, Capac	itor, C	Cell				
	(3)	Capacitor, Resis	ter, Bulb	(4)	Resister, Cell, E	Bulb					
18.			answer which shows	s the	factors that can	be c	hanged the resistance of a				
		luctor?									
	(1)		uctor and temperature								
	(2)	e	e conductor and the cro	oss se	ctional area.						
	(3)		area and temperature.								
			nductor and the densit	•							
19.		Earthworm			Cockroach						
		Toad			Leech						
			ntains the segmented		-		-				
	(1)	A,D	(2) A,B	(3)	B,C	(4)	C, D				

03

- 20. The correct statement about the combustion is,
 - (1) Combustion is a physical activity.
 - (2) No oxygen is needed for complete combustion.
 - (3) Oxygen is needed for combustion.
 - (4) There is only complete combustion happened in the candle flame.
- 21. An incident where the freezing is occurred,
 - (1) Liquidized wax \longrightarrow Evaporation
 - (2) Liquidized wax \longrightarrow Solidification
 - (3) Steam \longrightarrow Become in to water
 - (4) Solid Wax \longrightarrow Liquidation
- 22. The action which does not taken by the skin to keep the body temperature in constant is,
 - (1) Sweating when body temperature rise up
 - (2) The outermost cell layer of the epidermis prevents the removal of water.
 - (3) The hairs become erect on the skin.
 - (4) Receive the changes of the environment.
- 23. Following are some changes observed in the environment.
 - A A knife blade submerged under soil is trapped with corrosion.
 - B The volume of the mercury of a thermometer changed when measuring a temperature.
 - C The copper wire get heated when the electricity flows through it.

The physical changes among the above are,

- (1) B,C (2) A,C (3) A,B (4) A,B,C
- 24. An element with the property of brittleness is,
 - (1) Sulphur (2) Magnesium (3) Mercury (4) Lead
- 25. Some statements about water are given below.
 - A Water is created by Hydrogen and Oxygen.
 - B The boiling point of the distilled water is 100°C.
 - C A change of state is happened at the boiling point with changing the temperature.

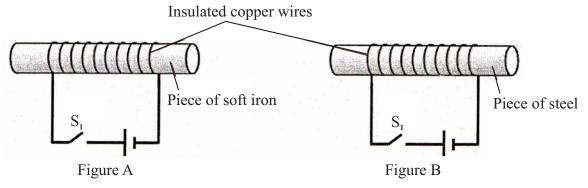
The correct statements are,

(1) A,B (2) B,C (3) A,C (4) A,B,C

• Answer only five questions.

• 12 marks for each questions.

01. A An apparatus that is used to transform a piece of soft iron and a piece of steel into a magnet is given below. Tow pieces are similar in size.



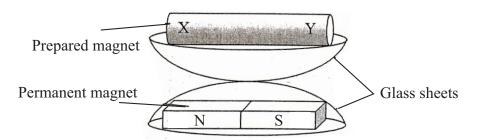
Steps of the activities are shown in the table given below. Complete the table according to the observations by using the words "Attract" and "Do not attract." (3 m.)

Activity	Observations				
	Piece of soft iron	Piece of steel			
1. Close to the pins when switch off the S_1					
2. Close to the pins when switch on the S_1					
3. Close to the pins when switch off the S_1					

- (ii) According to the activity what is the most suitable material which can be used to make a permanent magnet? (1 m.)
- (iii) Write 2 methods that can be used to increase the power of the above permanent magnet.

(2 m.)

B Following figure shows an activity which has done to identify the poles of the prepared magnet through the above activity.



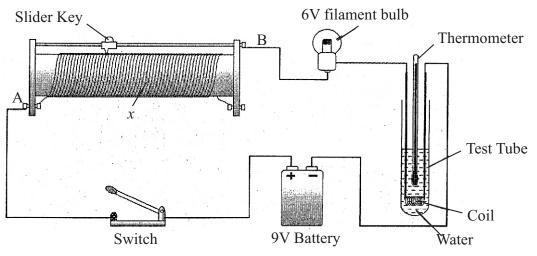
- (i) The situation of the prepared magnet is shown by the figure. Name the poles X and Y according to the above observation. (2 m.)
- (ii) Draw the magnetic field of the prepared magnet by using magnetic fields lines.

(2 m.)

 $(1 \, \text{m.})$

- (iii) What is the device that can be used to identify the direction of the magnetic field ?(1 m.)
- (iv) Write down an application of the electromagnets.

02. The following figure is shown an apparatus prepared to identify the effects of the electric current.



(i) Name the device "X".

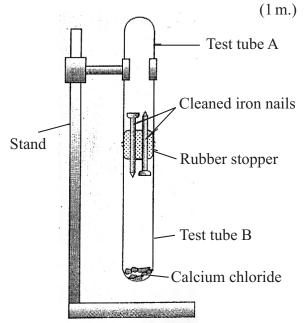
(1 m.)

 $(1 \, \text{m.})$

(ii) Complete the following table by using the observations taken after few minutes when switch on the circuit. (4 m.)

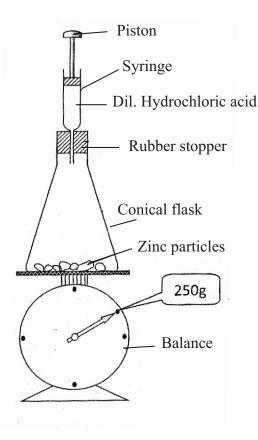
Device	Observation	Effect of the electric current
		according to the observation
Bulb		
Thermometer		

- (iii) Name a most suitable metal which can be used to prepare the coil.
- (iv) Which direction should be the slider key moved in order to increase the brightness of the bulb? (A to B or B to A) (1 m.)
- (v) When used LED instead of the filament bulb it light up first. When move the slider key to the position A,
 - a) Mention the observation of LED. (1 m.)
 - b) Write down the reason for it. (1 m.)
- (vi) What is the device which can be used to measure the current flow through the circuit?
- (vii) Specify the method for connecting the above device to the circuit. (1 m.)
- (viii) Draw the symbol of that device.(1 m.)
- 03. A The following figure shows a set up made for investigate one factor which is essential for rusting of iron.
 - (i) What kind of factor which caused the corrosion according to the above activity? (1 m.)



06

- (ii) When keep the apparatus for few days,
 a) What could be the observation in test tube "A"?
 b) What is the reason for that ?
 c) What could be the observation in test tube "B"?
 d) What is the reason for that ?
- (iii) What is the aim of cleaning of the iron nails before doing the experiment? (2 m.)
- (iv) Which factor is given equally to the nail parts of A and B test tubes among the factors which helps to the rusting of iron ? (1 m.)
- (v) What is the action of calcium chloride? (1 m.)
- (vi) Write an other chemical which can be used instead of calcium chloride? (1 m.)
- B Zine metal is applied on objects made of iron in order to protect them from rusting.
 - (i) What is the name of that process? (1 m.)
 - (ii) Write down an other method which can be used to prevent the rusting of iron. (1 m.)
- 04. A closed system created to do the reaction in between zinc and diluted hydrochloric acid is shown in the figure. The mass of the device is 250 g before starting the reaction.
 - (i) What is the action that should be taken to insert the acid into the conical flask ?(1 m.)
 - (ii) After inserting the acid into the flask,
 - a) Write an observation happening in the flask. (1 m.)
 - b) Write an observation of the syringe.
 - (1 m.)
 - c) What observation can be used to detect that a chemical reacion has been taken place in the device among the above observations? (1 m.)
 - (iii) Write down two other observations that can be used to identify a chemical reaction in addition to the above observation.(2 m.)
 - (iv) What is meant by a close system? (2 m.)
 - (v) Which <u>compound</u> is used for this chemical reaction? (1 m.)
 - (vi) What is the mass of the system after the reaction? (1 m.)
 - (vii) Write down the reason for the above one (vi)
 - (viii) What is the law which can be used to explain about chemical reactions through the above activity? (1 m.)



(1 m.)

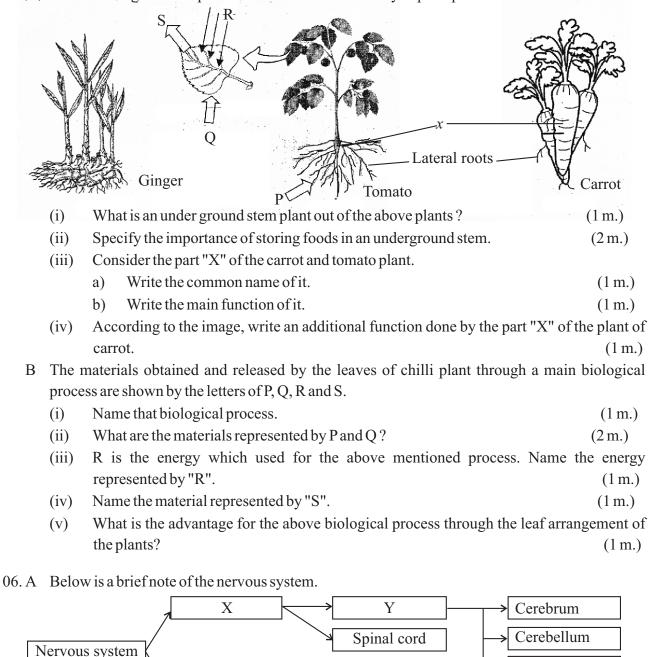
(1 m.)

(1 m.)

(1 m.)

 $(1 \, \text{m.})$

05. A The following are three plants used to show the diversity of plant parts and their functions.



- Medulla Ζ Peripheral nervous system spinal nerves (i) Name X, Y and Z $(3 \, \text{m.})$ (ii) Name a) one bony structure $(1 \, \text{m.})$ b) One film structure $(1 \, \text{m.})$ Which adapted to protect the spinal cord. Write down an adaptation of X, shown to protect form the microbial infections. (2 m.) (iii) (iv) Which part of "Y" belong to the following functions? Identify a vehicle traveling on the road. a) $(1 \, \text{m.})$
 - b) Threading a needle. (1 m.)
 - c) Respiratory discomfort occurs when hits to the back of the head. (1 m.)
 - (v) Write down two measures which can be taken to protect the nervous system. (2 m.)

Answer Sheet - Part I 01. (3) 02. (2) 03. (4) 04. (1) 05. (4) 06. (3) 07. (4) 08. (1) 09. (4) 10. (3) 11. (2) 12. (2) 13. (3) 14. (3) 15. (2) 16. (1) 17. (4) 18. (2) 19. (1) 20. (3) Part II 01. A (i) Piece of soft iron 1. Donotattract Donotattract Attract 3. Donotattract Attract Attract Attract Increase the number of itums of the coil. Increase the number of itums of the coil. Increase the number of or lums of the coil. Increase the number of speaker / or suitable answer. (ii) VE Electric motor /speaker / or suitable answer. (iii) Device Observation Effect of the clectric current according the observation Bulb	Grade 08 SECOND TERM TEST - 2019							SCI	ENCE				
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01. A (i)	21. (2)) 22.	(2)	23.(1)	24.(1)	25.(1)							
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c)Part of the nails are not rusting.(1 m.)d)Does not get the water as the factor caused the rusting effect.(1 m.)(iii)Remove the rust or any paints.(4 m.)			b) Got the all factors needed for rusting effect										
d) Does not get the water as the factor caused the rusting effect.(1 m.)(iii) Remove the rust or any paints.(4 m.)				Gotthe	e water								(1 m.)
(iii) Remove the rust or any paints. (4 m.)			c) Part of the nails are not rusting.								(1 m.)		
			d) Does not get the water as the factor caused the rusting effect. (1								(1 m.)		
		(iii)	Remove the rust or any paints. (41								(4 m.)		
(iv) Air/oxygen (1 m.)		(iv)	Air	/oxygen									(1 m.)

Grade 08		SECOND TERM TEST - 2019 Answer Sheet - C	Continuation	
	(v)	Absorb the moisture of the air in B. (If there is not B, do not give the marks)	(1 m.)	
	(vi)	Silica Jell	(1 m.)	
В	(i)	Galvanize	(1 m.)	
	(ii)	Apply greece or paints / Dip in kerosine.	(1 m.)	
04.	(i)	Push the piston into the syringe	(1 m.)	
	(ii)	a) Remove the air bubbles / Destruction of the Zn plate.	(1 m.)	
		b) Rise up the piston / Piston goes upwards	(1 m.)	
		c) Removing the air bubbles.	(1 m.)	
	(iii)	Precipitation / Change of the colour / Effervescence / etc	(2 m.)	
	(iv)	The systems in which the substances cannot exchange between the system and the		
		environment.	(2 m.)	
	(v)	Hydrochloric acid	(1 m.)	
	(vi)	250 g	(1 m.)	
	(vii)	Because of the mass of reactants and the mass of the products are equal to each.	(1 m.)	
	(viii)	To the explanation of the Law of - conservation of mass.	(1 m.)	
05. A	(i)	Ginger	(1 m.)	
	(ii)	Perennation	(2 m.)	
	(iii)	a) Tap root	(1 m.)	
		b) Anchor the plant in the soil/Absorb water and minerals	(1 m.)	
	(iv)	Storing foods	(1 m.)	
В	(i)	Photosynthesis	(1 m.)	
	(ii)	$P = Water / Q = CO_2$	(2 m.)	
	(iii)	Light/Light energy		
		(No marks to the solar energy)	(1 m.)	
	(iv)	Oxygen	(1 m.)	
	(v)	To get enough / more light to the leaves.	(1 m.)	
06. A	(i)	X = Central nervous system	Y=Brain	
		Z=Cranial nerves	(3 m.)	
	(ii)	a) Spinal column	(1 m.)	
		b) Meninges	(1 m.)	
	(iii)	Presence of cerebrospinal fluid	(2 m.)	
	(iv)	a) Cerebrum	(1 m.)	
		b) Cerebellum	(1 m.)	
		c) Medulla	(1 m.)	
	(v)	For suitable answer	(2 m.)	