SCIENCE AND ELEMENTARY TECHNOLOGY

PSET

13/11/2018 9AM -11AM



Pupil's co	mplete i	index n	umber	_	
Province/ City	District	Sector	School	Pupil	Year
Pupil's na	ames				
Surname	:				
Other na	mes:				
NB: PUPII BE WRITT REGISTR	TEN AS T	HEY AF			s must

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2018

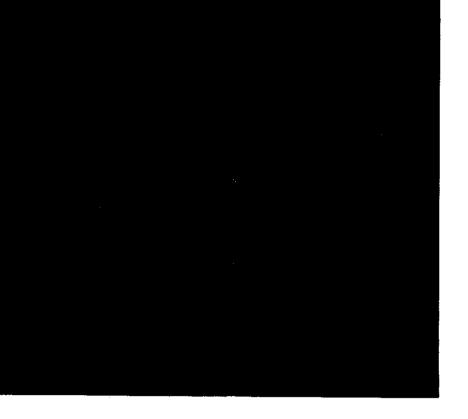
SCIENCE AND ELEMENTARY TECHNOLOGY

Duration: Two hours

Marks: /100

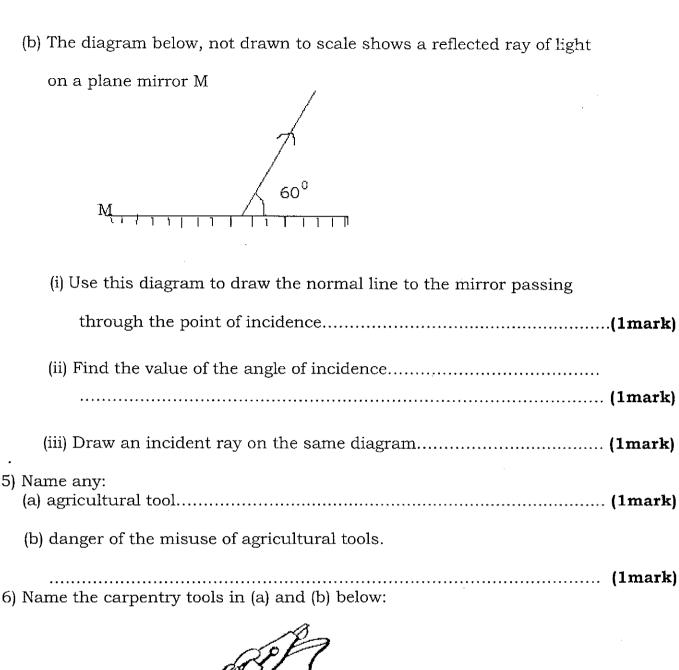
INSTRUCTIONS

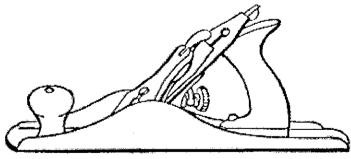
- 1) Do not open this question paper until you are told to do so.
- 2) This paper consists of 12 pages and 37 questions. Before starting, check if all pages and all questions are there and are arranged in ascending order.
- 3) This paper has two sections: A and B.
- 4) Questions in both sections are compulsory and must be answered as instructed.
- 5) Read each question carefully before answering it.
- 6) Answer the questions in the space provided in this question paper.
- 7) You must use a blue or black pen and a pencil for drawing.



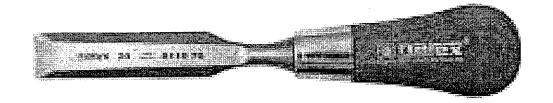
SECTION A: ATTEMPT	ALL	QUESTIONS	(50	MARKS)
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1)	State any of (a) energy	ne form of:		(1mark)
	(b) renewabl	e energy source		(1mark)
2)	Complete th	ese sentences		
			nagnetic force is strongest is	(1mark)
			ets to show directions is known	(1mark)
<u>.</u> 3)	Draw a line component i	_	ol and link it to the electrical	
		Circuit symbol	Electrical Component	
			Resistor	
		 	·	
			Dry cell	
`.			Switch	
				(3marks)
4)		erm <u>refraction of light</u> or wing question.	reflection of light to answer	
		sent back into the same		
	********			(лиагк)





(a)......(1mark)



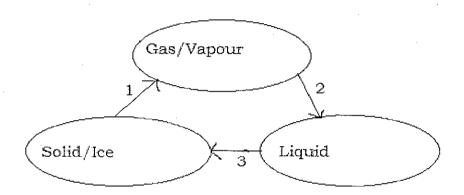
(b)	(1mark)
(c) What is the "spirit level tool" used for?	(1mark)
7) Write any two masonry tools.	,
(a)	(1mark)
(b)	(1mark)
8) Mention any two materials used to make toys	
(a)	(1mark)
(b)	(1mark)
9) (a) The person who repairs machines is called:	
	(1mark)
(b) The person who uses a tool known as anvil is called :	
	(1mark)
10) Use True or False to answer the following:	
(a) A screw driver isn't an example of a simple machine.	
	(1mark)
(b) For a lever to be a first class lever, the fulcrum needs to be	·
between the load and the effort	(1mark)
(c) A simple machine is a tool that makes the work easier.	
	(1mark)
4 6 4 5 4 5 5 4 5 7 4 7 4 7 5 7 5 7 5 7 7 7 7	

11) Calculate the relative density of each substance and complete the table given below.

(2 marks)

Material	Density in kg/m ³	Relative density
water	1 000	
gold	19 320	

12) Name the different phenomena of water changes shown in the diagram below.



1) (1mar)	k)
2) (1marl	ĸ)
3) (1marl	ĸ)
13) The physical parts of a computer are called	c)
14) A small picture that represents a folder, program or other things	
is called:	k)
15) If youa document from the journal, it will be	
completely lost. (1mark	x)
16) The activity you are working on is automatically saved and can be	
accessed from the(1mark	s)

17) Name three ways in which you can start using the write activity	•
(a)	(1mark)
(b)	(1mark)
(c)	(1mark)
18) What do the following terms refer to as used in scratch?	
(a)Sprite	(1mark)
(b)Animation	(1mark)
19) List any two popular programming languages for kids.	
(a)	(1mark)
(b),	(1mark)
20) What is the use of Paint activity?	(1mark)
······································	*******
21) List four functions of scratch sound editor.	
a)	(1mark)
b)	(1mark)
c)	(1mark)
d)	(1mark)
22) What is a search engine?	(2marks)
	•••••
23) Explain the uses of the following commands.	
(a) Back	(1mark
(b) Left	(1mark)
SECTION B: ANSWER ALL QUESTIONS (50 Marks)	
24) (a) The characteristics for Movement is also called:	
	(1 mark)

(iii)	(ii)		(1ma
(iii)	(iii)		(1ma
(iv) (1ma) Using an arrow (), match each animal in A with the correct group to which it belongs in B. A (Animal)	•		,
Using an arrow (), match each animal in A with the correct group to which it belongs in B. A (Animal) B (Group) Chameleon Mammal Toad Reptile Ostrich Birds Bat Amphibian List down two similarities between plants and animals. (Amage of the content of the c	(iv)	••••••	(1ma
A (Animal) Chameleon Mammal Toad Reptile Ostrich Bat Amphibian (4man List down two similarities between plants and animals. a) (1man (a) Look at the crossword puzzle below and find at least four parts of a flowering plant and list them. SOVULLE OHRSQP VCOPRE ATOOODT RPTAATA			
Chameleon Mammal Toad Reptile Ostrich Birds Bat Amphibian (4max) List down two similarities between plants and animals. (a) (1max) (b) (1max) (a) Look at the crossword puzzle below and find at least four parts of a flowering plant and list them. SOVULLE OHRSQP VCOPRE ATOOODT RPTAATA	Using an arrow (————————————————————————————————————	▶), match each animal in A with the corr gs in B.	rect
Chameleon Mammal Toad Reptile Ostrich Birds Bat Amphibian (4max) List down two similarities between plants and animals. (a) (1max) (b) (1max) (a) Look at the crossword puzzle below and find at least four parts of a flowering plant and list them. SOVULLE OHRSQP VCOPRE ATOOODT RPTAATA	A (Animal)	B (Group)	
Toad Reptile Ostrich Birds Bat Amphibian (4max) List down two similarities between plants and animals. (a) (1max) (b) (1max) (a) Look at the crossword puzzle below and find at least four parts of a flowering plant and list them. SOUVULEE OHRSQPP VCOPPREE ATOOODTT RPTA		Mammal	
Ostrich Birds Bat Amphibian (4max) List down two similarities between plants and animals. (a)	Toad	Rentile	
List down two similarities between plants and animals. (a)	Ostrich		
List down two similarities between plants and animals. (a)	Bat	···	
(a)		Amphibian	
S O V U L E O H R S Q P V C O P R E A T O O D T R P T A T A	(a)	ies between plants and animals.	•
O H R S Q P V C O P R E A T O O D T R P T A T A	(a) Look at the crosswo	ies between plants and animals. ord puzzle below and find at least four pa	(1ma
V C 0 P R E A T 0 O D T R P T A T A	(a) Look at the crosswo	ies between plants and animals. ord puzzle below and find at least four pa	(1ma
R P T A T A	(a)(b)(a) Look at the crossword flowering plant and S O V I	ies between plants and animals. ord puzzle below and find at least four pa	(1ma
	(a) (a) Look at the crossword flowering plant and SOVII OHRS	ies between plants and animals. ord puzzle below and find at least four padd list them. U L E S Q P	(1ma
Y S B Z C L	(a) Look at the crossword flowering plant and O H R S V C O H A T O C	ies between plants and animals. ord puzzle below and find at least four padd list them. U L E S Q P P P R E C D D T	(1ma
	(a) Look at the crossword flowering plant and O H R S V C O H A T O C R P T A	ies between plants and animals. ord puzzle below and find at least four padd list them. U L E S Q P P R E O D T A T A	(1ma
	(a) Look at the crossword flowering plant and O H R S V C O H A T O C R P T A Y S B Z	ies between plants and animals. ord puzzle below and find at least four particle of the last fo	(1ma
(=)	(a) Look at the crossword flowering plant and O H R S V C O H A T O C R P T A Y S B Z	ies between plants and animals. ord puzzle below and find at least four padd list them. U L E S Q P P R E O D T A T A	(1ma
(ii)(1ma	(a) Look at the crossword flowering plant and S O V I O H R S V C O H A T O C R P T A Y S B Z	ies between plants and animals. Ord puzzle below and find at least four particle in them. U L E S Q P P P R E CO D T A T A A Z C L	(1ma arts of a
(ii)(1ma	(a) Look at the crossword flowering plant and S O V I O H R S V C O H A T O O R P T A Y S B Z	ies between plants and animals. Ord puzzle below and find at least four part list them. U L E S Q P P P R E O D T A T A A Z C L	(1ma arts of a (1ma
·	(a) Look at the crossword flowering plant and S O V I O H R S V C O H A T O O R P T A Y S B Z	ies between plants and animals. Ord puzzle below and find at least four part list them. U L E S Q P P P R E O D T A T A A Z C L	(1ma arts of a (1ma
(ii)(1ma	(a)(b)(a) Look at the crossword flowering plant and SON VON TO HOLD TO	ies between plants and animals. Ord puzzle below and find at least four particle in them. U L E S Q P P P R E CO D T A T A A Z C L	(1ma arts of a (1ma (1ma

28) A	farmer cuts down a forest t	o grow po	otatoes.	
	(a) Do you agree with his a	ction?		(1mark)
	(b) If Yes give reasons to su	ipport you	ır answer.	
				••
	•••••			(2marks)
	If No, support your answ			
				••
	•••••			••
29)	Match using an arrow, the B.	items in	Column A against those in Colu	mn (4marks)
	Column A	Column	ı B	
	1. Sepal	(a) F	emale reproductive part	
	2. Petal	(b) P	rotect the inner part of the flowe	r
	3. Stamen	(c) A	ttract insects	
	4 01	(d) M	Tale reproductive parts	
	4. Carpel	(e) R	Receive pollen grains	
30)	Complete the table below.			(3marks)
	Parts of the Circulatory S	ystem	Function	
	1. Veins			
	2. Heart	<u>. </u>		
	3. Arteries			
3	1)(a) Name the two types of	Pollinatio	n in Flowering plants.	<u> </u>
	(i)			(1mark)
	(ii)			(1mark)
	(b) Write down any two age	nts of Po	llination.	

(i)	(1mark)
(ii)	(1mark)
32) (a) Give two types of germination.	
(i)	(1mark)
(ii)	(1mark)
(b) Apart from Moisture, state any other condition necessary	
for seed germination	(1mark)
33) (a) Name two natural resources in the environment that enable green	
plants to make their food.	
(i)	(1mark)
(ii)	(1mark)
(b) What is the name of the process in (a) above?	(1mark)
(c) What gas is given off during this process?	(1mark)
34) (a) Which type of blood vessels return blood to the heart?	(1mark)
(b) What is the function of valves in blood vessels during blood	
circulation ?	(1mark)
(c) What type of blood is carried by most blood vessels with valves?	
	(1mark)
(d) Give any one waste material carried by blood.	(1mark)

35) (a) Which organ removes urine from the body?(1m	nark)
(b) To which body system does the organ that removes urine from	
the body belong?(1m	ıark)
(c) Where is urine collected before it is removed from the body?	
(1ma	ark)
36) (a) Name the germ that causes HIV/AIDS(1ma	ark)
(b) Apart from having sex with an infected person, write down any other	
way in which one can get the germ that causes HIV/AIDS.	
(1ma	ark)
(c) State the name of the insect that transmits malaria parasite from	
one person to another(1ma	ark)
37) Which part of the body is affected by each of the following diseases?	
(a) Bilharzia(1ma	ark)
(b) Scabies(1ma	ark)
(c) Trachoma(1ma	ark)
(d) AIDS(1ma	ark)

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