# PTE MOCK EXAMINATION

### **SCIENCE**

# **MARCH, 2019**

TIME:	21/2	HPC
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(b)	Other than recording, name two skills learners will develop du	ring this lesso (1mark)
Name in the	three materials required to carry out an experiment to show that soil	there is air (3marks)
(d)	State three instructions a teacher that the teacher should give to to guide them to carry out an activity to show that there is air in	
(e)	Draw a labeled diagram of the set up that could be included in summary for this lesson.	the chalk boar (2 marks)
` '	Draw a labeled diagram of the set up that could be included in	

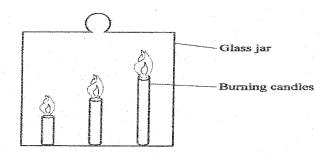
(d) State <b>three</b> reaso	ns why it is important to	o record observations in Science (3 marks)
3. A teacher wanted in a class.	his pupils to construct a	weather station as one of the projects
(a) List down the maconstruct a rain gaug		ld ask the pupils to bring in order to (4mks)
(b) Name <b>TWO</b> wearainfall.	ather elements that can b	be measured in the weather station other (2mks)
(c) State <b>TWO</b> reason teaching about weath		e to use the project approach when (2mks)
(d) Name <b>TWO</b> attirproject.	tudes that the pupils wo	uld acquire while carrying out the
		(2mks)
Apart from written te	ests, name other <b>two</b> me	ethods of assessing pupils in science. (2 marks)
-	hows a section of the so	given to Standard eight pupils.  plar system showing six planets in the order
	$\phi \phi \phi_{x} \phi \phi$	
Which planet is mark A. Earth	xed X in the diagram abo	ove?

4.

2

	upiter Venus Mars	
i)	Identify the key	(1 mark)
ii)	What ability does the question test?	(1 mark)
iii)	Majority of the pupils chose option A. What <b>two</b> points should the teacher emphasize on when reverthe pupils?	vising the question with (2 marks)
c)	A multiple choice question has the following options. A. Ticks B. Liver Flukes C. Tsetse Flies	
i) W	D. Fleas  rite down a suitable stem to the question.	(2 marks)
ii) S	tate the key	(1 mark)
iii) S	tate the ability being tested.	(1 mark)
diffe	teacher wanted Standard Seven pupils to investigate water retorent types of soil  a) Name <b>four</b> materials required for the investigation other the	
(	b) State <b>three</b> variables that should be controlled during the in	nvestigation(3 marks)
State	the importance of the principle in soils to plants life	(1mark)

6. The diagram below represents a set up that was used in an investigation



- (a) Learners observed that candles went off.
  - (i) State the order in which the candles went off

(2marks)

- (ii) Explain why the candles went off in the order you have stated in (i) above (3 marks)
- (b) State three ways in which a teacher could use dynamic approach during this investigation (3 marks)
- (c) Explain how knowledge gained from this investigation could be used to rescue somebody from a burning house (2 marks)

#### **SECTION B (40 marks)**

### Answer all questions in this section in the spaces provided

7. The table below shows the average height in cm of a man, taken after every three years over a period of 24years

Age (Years)	0	3	6	9	12	15	18	21	24
Height (cm)	50	92	106	120	142	163	169	170	170

(a) On the grid provided, draw the graph of height (y-axis) against age (4 marks)

	(b)	Use a graph to state a 5 year period during which the growth re	ate was fastest (1 mark)
	(c)	Determine the annual growth rate between the eleventh and th	e sixteenth year (2 marks)
	(d)	Explain the shape of the curve between the 15 <sup>th</sup> and 24 <sup>th</sup> year	(1 mark)
8.	(a) B	riefly describe the following terms:	
		Cross pollination	(2 mark)
		Transpiration	(2 mark)
9.	State	the causative agent in each of the following diseases	(2 marks)
		Disease Causative agent Candidiasis	
		Tuberculosis	
	(b) N	Name <b>two</b> methods of softening hard water	(2 marks)
10.		nonohybrid inheritance, a pure breed for round seed (RR) was cr for wrinkled seeds (rr)	ossed with a pure
	(a)	Using genetic crosses work out the F1 generation	(3 marks)
	(b)	Determine the phenotypic ratio of F2 generation if F1 generation	on was selfed (3 marks)

(a)	State why polythene wastes are environmental pollutants	(1 mark)
(b)	State three ways of managing polythene waste so as to avoid the pollution	environmental (3 marks)
(a)	The diagram below (not drawn on scale) represents a simple maused to raise a load.	chine that was
	2m 1.5m Effort	
	Load Fulcrum  Calculate the velocity ratio of the machine	(2 marks)
(b)	State two properties of oil that make it suitable as a lubricant	(2marks)
Name	e the hormone secreted by each of the following glands  Ovary	(1 mark)
	·	(1 mark)

<ol> <li>The velocity ratio of a machine is 4, with an efficient advantage</li> </ol>	(3 marks)
14. The diagram below shows a maize grain.	
i. Name the parts marked	(4 marks)
R	
P	
Q	
Т	

(1 mark)