Catholic High School (Primary)
Primary 4 Science 2020
Weighted Assessment

MARKS	/ 30

Name: _____ ( )

Class: Pri. 4 - _____

Date: [redacted] 2020 Parent's Signature: _____

Section A (10 × 2 marks)

For each question from 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write the correct number in the brackets provided.

(20 marks)

1 Which statement about the grasshopper nymph is **not** correct?

(1) It has six legs.

(2) It has no wings.

(3) It moults at this stage.

(4) It spends its egg stage in water. ( )

2 Which statement is correct?

(1) Plants with green leaves can make food.

(2) Plants that have flowers have four stages in their life cycle.

(3) More shoots grow to help the plant take in water from the soil.

(4) Different plants take the same amount of time to develop from seeds to adult plants

( )

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3 Madam Lee wants to find out if warmth is needed for the seeds to grow. She has four identical containers, A, B, C and D, containing the same amount of cotton wool and beans. The containers are placed under different conditions as shown in the table below.

Container	Presence of air	Presence of water	Location
A	Yes	Yes	in an open field
B	No	Yes	next to a window
C	Yes	No	on a kitchen table
D	Yes	Yes	in the freezer

Which two containers should Madam Lee use to conduct a fair test?

(1) A and B
(2) A and D
(3) B and C
(4) C and D

( )

4 The diagram below shows the young and the adult of animal P.



young of animal P



adult of animal P

The following statements are made about the young and the adult of animal P.

A The young of animal P does not resemble the adult of animal P.
B Both the young and adult of animal P breathe through their gills.
C The young of animal P has a tail but the adult of animal P does not have a tail.
D The young of animal P lives on land but the adult of animal P lives on land and in water.

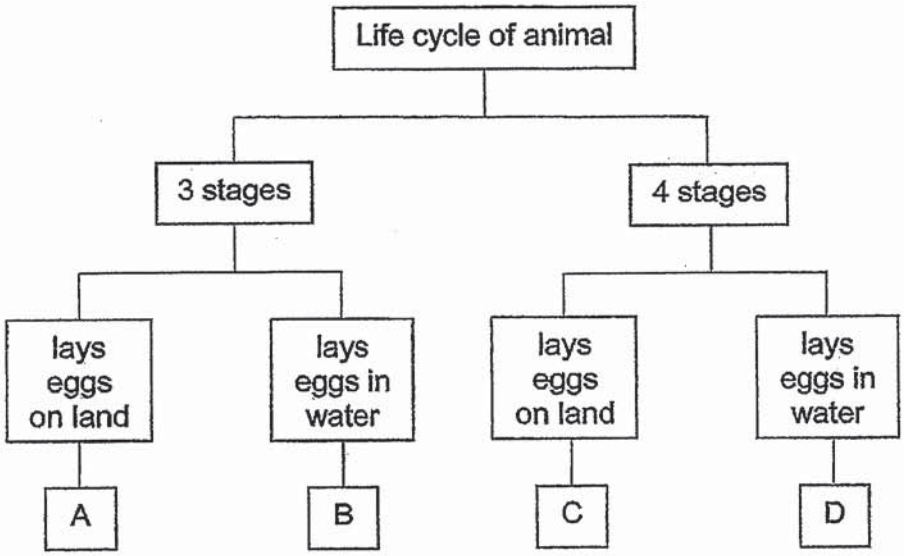
Which statement(s) is/are correct?

(1) C only
(2) A and B only
(3) A and C only
(4) B and D only

( )

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5 Study the diagram below.

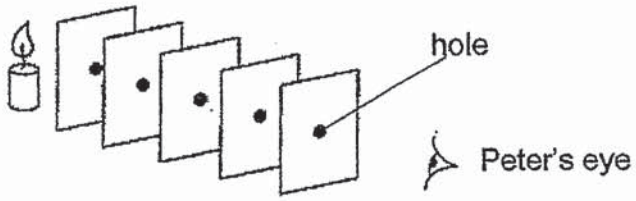


Which one of the following represents A and C?

	A	C
(1)	chicken	butterfly
(2)	dragonfly	mosquito
(3)	butterfly	cockroach
(4)	frog	grasshopper

( )

6 When the holes on the cardboard pieces are placed in a straight line, Peter is able to see the flame of the candle.



When one cardboard piece is moved to the left or right, Peter is not able to see the flame of the candle.

Which of the following explains Peter's observations?

(1) Light travels in straight lines.

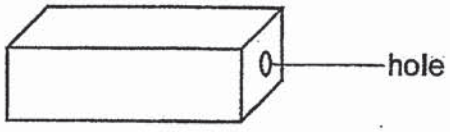
(2) Light falls on the flame and is reflected into Peter's eye.

(3) Light is reflected off the cardboard pieces and into Peter's eye.

(4) Light passes through the cardboard pieces and into Peter's eye. ( )

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7 Samy placed three objects in a black box that does not allow light to pass through. He then peeped through the small hole to see if he could see the objects. He then repeated the experiment but placed a torchlight that was switched on in the box.



A tick (✓) in the table below shows that Samy could see the object.

Object	With torchlight	Without torchlight
A	✓	
B	✓	
C	✓	✓

Which object(s), A, B and C, is/are a source of light?

(1) A only

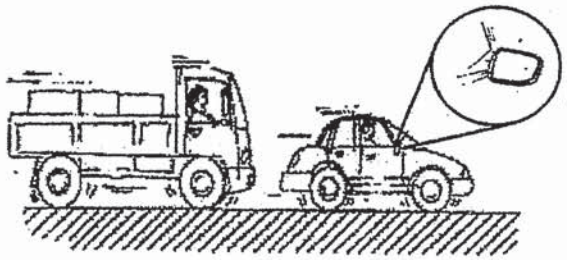
(2) C only

(3) A and B only

(4) A, B and C ( )

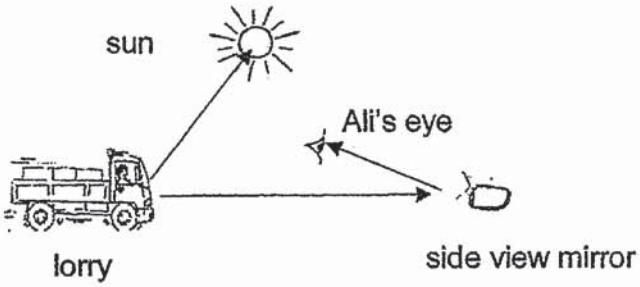
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8 Ali was driving a car and he could see the lorry from the side view mirror.

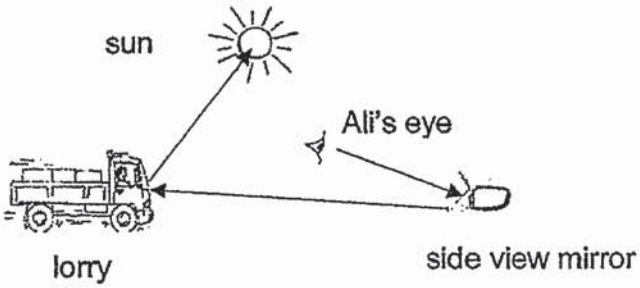


Which of the following shows the correct direction of light that allows Ali to see the lorry?

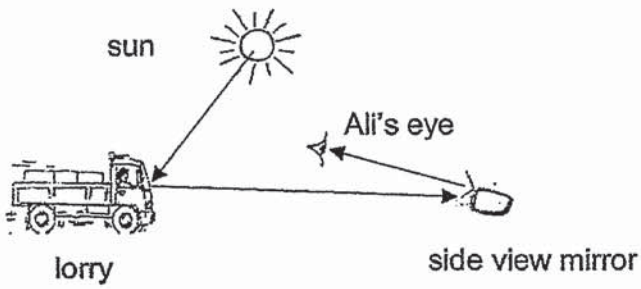
(1)



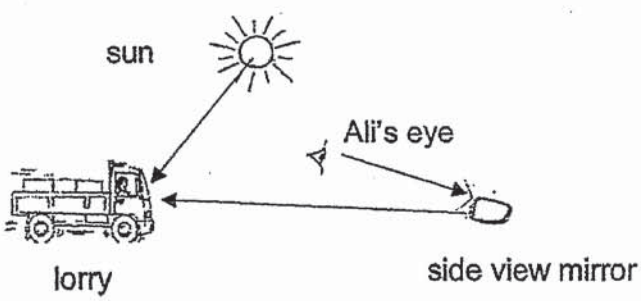
(2)



(3)



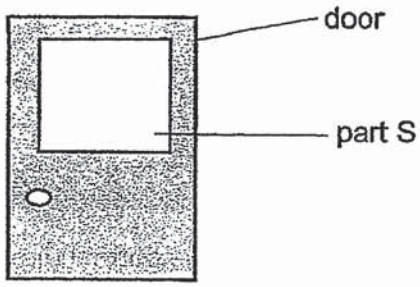
(4)



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9 The diagram below shows a classroom door. Part S of the door enabled people from outside the classroom to see the pupils inside the classroom clearly.

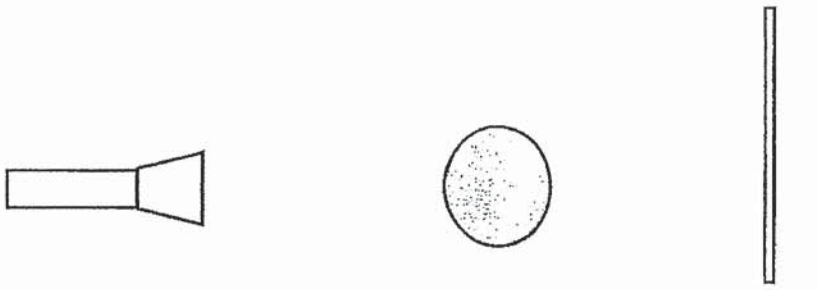


Which one of the following best identifies the type of material used to make part S and its property?

	Material	Property of material
(1)	wood	allows some light to pass through
(2)	clear glass	does not allow light to pass through
(3)	clear glass	allows most light to pass through
(4)	frosted glass	does not allow light to pass through

( )

10 Jennifer set up the following experiment. A shadow was formed on the screen.



What could Jennifer do to obtain a larger shadow on the screen?

A Move the object towards the screen.
B Move the object towards the torchlight.
C Move the torchlight away from the object.
D Move the screen away from the torchlight.

(1) A and B only
(2) A and D only
(3) B and C only
(4) B and D only

( )

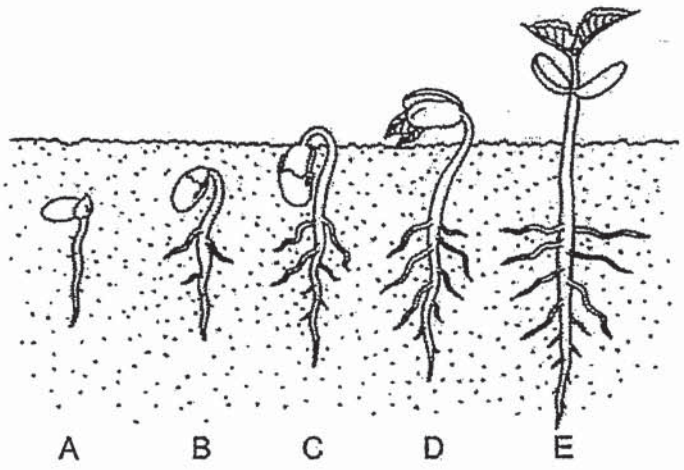
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Section B (10 marks)

For questions 11 to 13, write your answers in this booklet.

The number of marks available is shown in brackets [ ] at the end of each question or part question. (10 marks)

11 The diagram below shows the stages, A, B, C, D and E, of the growth of a seed.



(a) (i) Name the part that appears first at stage A when the seed grows. [1]

_____

(ii) Why is the part mentioned in (a) important for the growth of the seed? [1]

_____

_____

(b) Name the conditions necessary for the seed to grow. [1]

_____

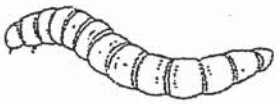
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SCORE

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12 Study the diagram below.



mealworm

(a) Which stage of the life cycle is the mealworm at? [1]

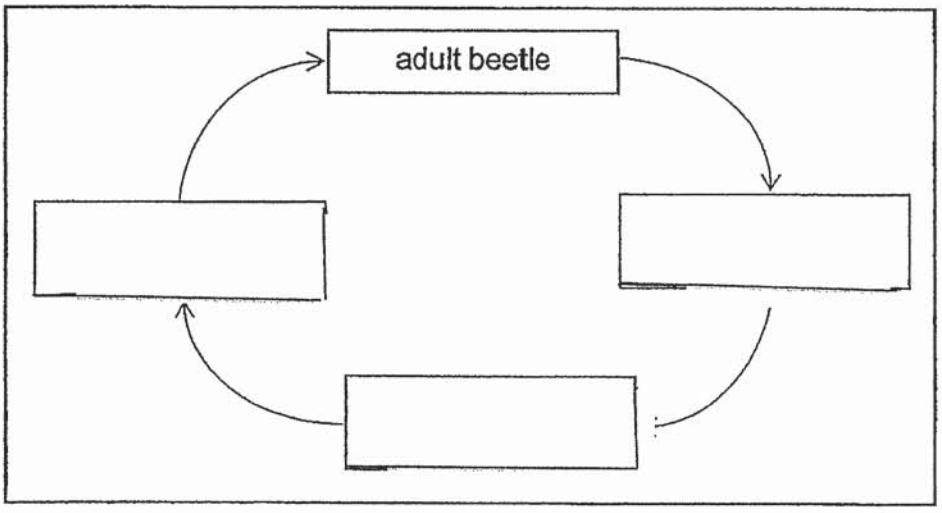
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(b) There were thirty mealworms in a jar at first. After three weeks, the number of mealworms decreased. What could have happened to the mealworms if the total number of living things in the jar remained the same? [1]

_____

_____

(c) Fill in the boxes to show the life cycle of a mealworm beetle. [1]



(d) State a difference between the characteristics of a larva and a pupa. (Do not compare shape, size and colour.) [1]

_____

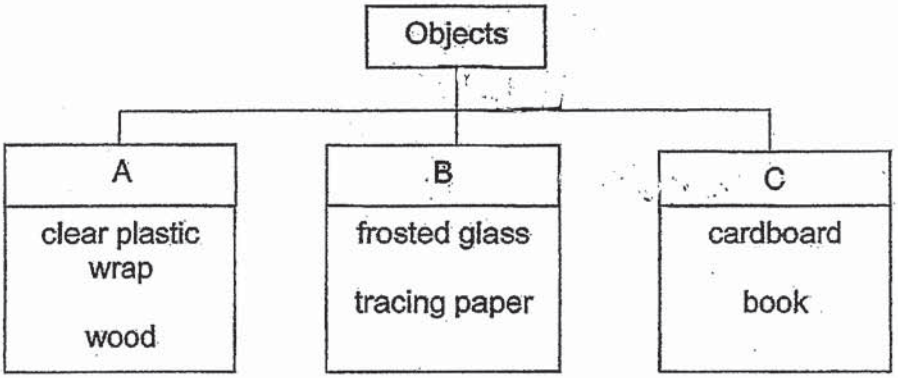
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SCORE	/ 4

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13 Winston classified some objects based on the amount of light that can pass through them as shown below.



(a) What is the property that Winston consider in order to place frosted glass and tracing paper in the same group? [1]

_____

_____

(b) Which object is classified wrongly? Give a reason for your answer. [1]

_____

_____

(c) Circle the object(s) which can be placed in group A. [1]

stapler	clear glass	basketball	clear book cover

End of Paper

SCORE	/ 3

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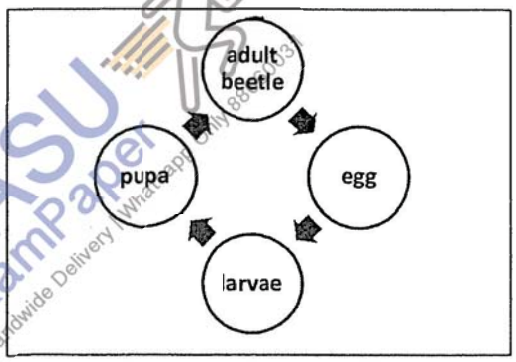
ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 4
SCHOOL : CATHOLIC HIGH
SUBJECT : SCIENCE
TERM : CA2

SECTION A

Q1	4	Q2	1	Q3	2	Q4	3	Q5	1
Q6	1	Q7	2	Q8	3	Q9	3	Q10	4

SECTION B

11 a)	i) Roots appears first ii) It absorb mineral salt and water from the soil.
b)	Warmth ,air and water are needed for the seed to grow.
12	a) It is at its larvae stage. b) The meal worms have turned into its pupa stage. c)  d) The larvae feeds a lot while the pupa stage does not feed at all.
13	a) They allow some light to pass through b) Wood . As it does not allow any light to pass through while clear plastic wrap allows most light to pass through. c) Clear glass , clear book cover

1
END.

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