

CA1

METHODIST GIRLS' SCHOOL

PRIMARY 5

SCIENCE

CONTINUAL ASSESSMENT 1

2005

Name : _____ ()

Class : Pr 5 . _____

Date : _____

Marks : Section A (30 marks) _____

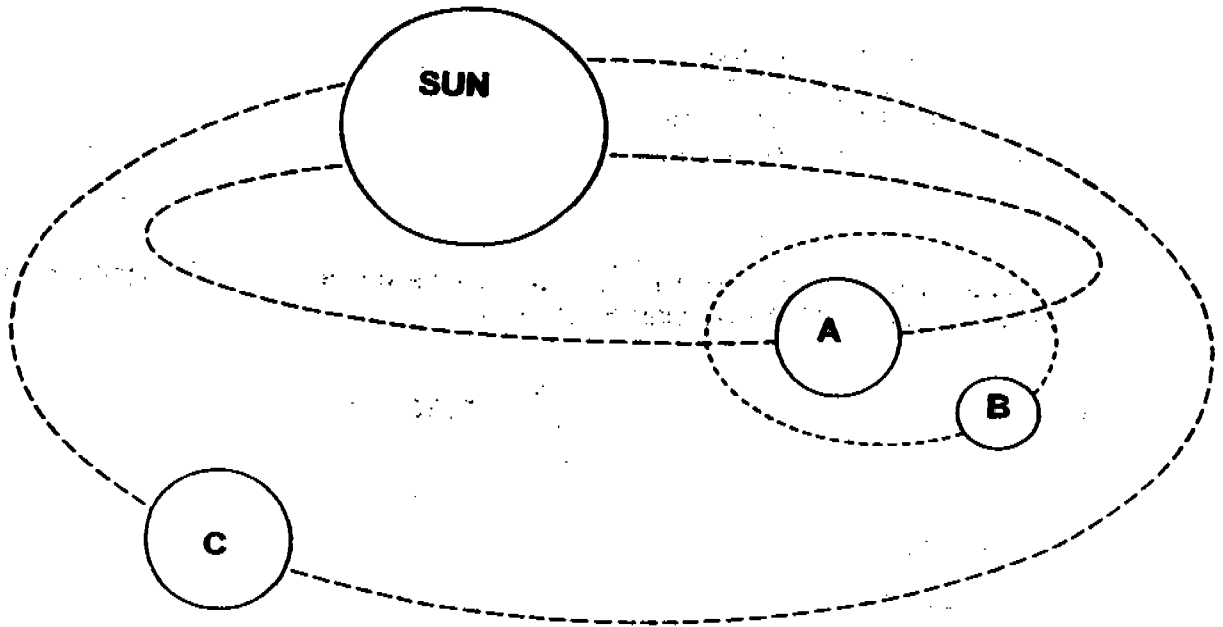
Section B (20 marks) _____

Total (50 marks) _____

Section A (30 marks)

Choose the most suitable answer and write its number in the brackets provided.

1. Study the diagram below. The broken lines represent orbits of A, B and C.



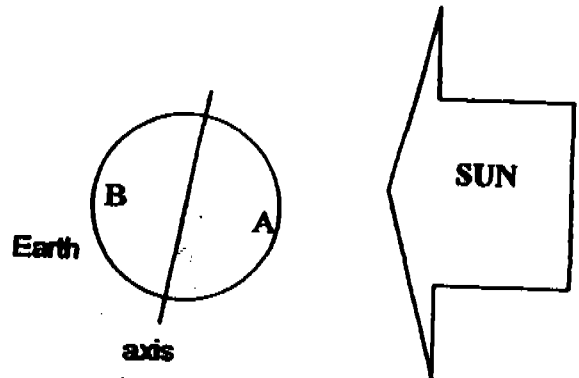
Which one of the following statements is not true ?

- A revolves round C.
- C revolves round the Sun.
- B is a possible satellite of A.
- A is closer to the Sun than C.

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2. If it is 9 a.m. at position A on Earth, what is the likely time at position B ?

- (1) 9 a. m.
- (2) 9 p. m.
- (3) 6 a. m.
- (4) 6 p. m.



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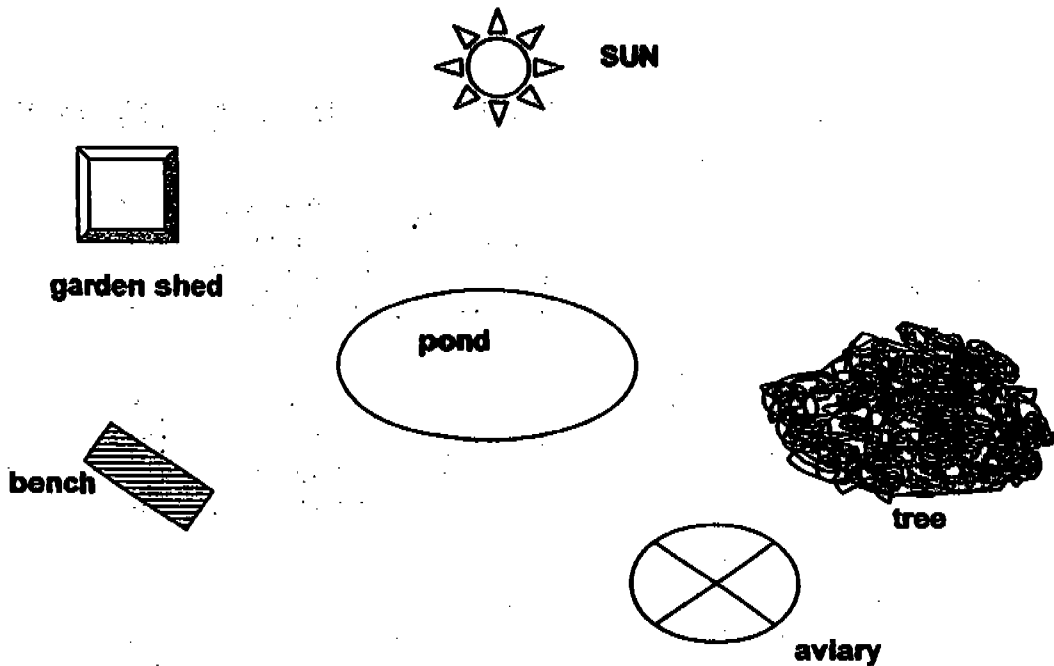
3. Which of the following statements about Earth and Pluto are true ?

- A. Both reflect sunlight.
- B. Pluto is smaller than Earth.
- C. They have the same number of moons.
- D. They are found in the outer Solar System.

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

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4. The diagram shows a garden as seen from above at 8.30 a.m. in the morning. Which object is North-west from the pond ?



- (1) tree
- (2) aviary
- (3) bench
- (4) garden shed

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5. Many television viewers from all over the world are able to watch the World Cup soccer finals. Which one of the following makes this possible ?

- (1) Weather satellites
- (2) Navigation satellites
- (3) Exploration satellites
- (4) Communications satellites

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6. Study the four cycles below.

- A: The change from night to day
- B: The change from winter to spring
- C: The change from low tide to high tide
- D: The change from new moon to full moon

Which two of the cycles are results of the Moon's revolution around the Earth ?

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

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7. Grace had a mass of 3 kg when she was born. She is eleven years old now and has a mass of 30 kg.

What would have caused the increase in her mass ?

- A: Cell division
- B: Cell growth
- C: Cell repair

- (1) A only
- (2) B only
- (3) A and B only
- (4) A, B and C

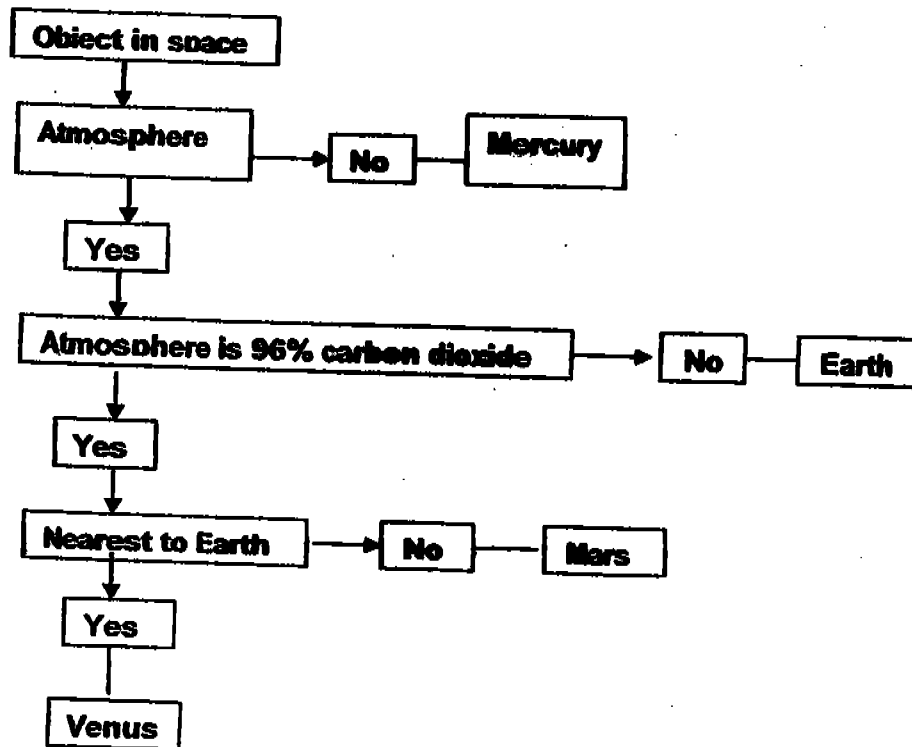
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8. Luna saw a full moon one night. What would she see about 3 days after the full moon ?

- A gibbous
- B crescent
- C new moon
- D first quarter

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9. Study the flowchart shown below.



Which one of the statements best describes the planet Venus ?

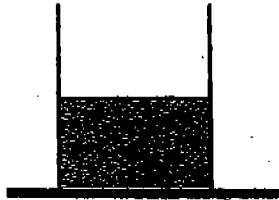
- (1) It is a small planet.
- (2) It has no atmosphere.
- (3) It is closest to Earth in distance.
- (4) It is covered completely by carbon dioxide.

10. Which of the following statement /s about clouds is / are correct ?

- A: They reflect sunlight.
- B: They are in liquid form.
- C: They can be seen in the day sky only.
- D: They have a fixed position in the sky.

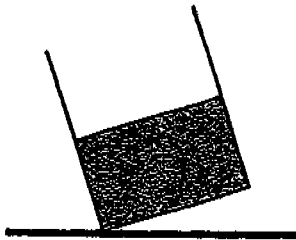
- (1) A only
- (2) B only
- (3) A and B
- (4) B, C and D

11. Hock Seng filled a plastic beaker with some water and left it in the freezer for two days.

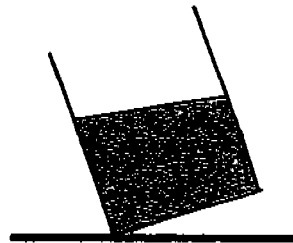


After removing the beaker from the freezer, he tilted it. Which of the following diagrams shows the correct observation he has made?

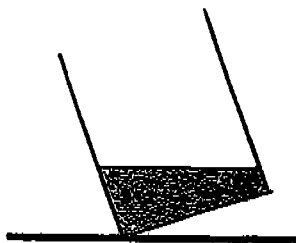
(1)



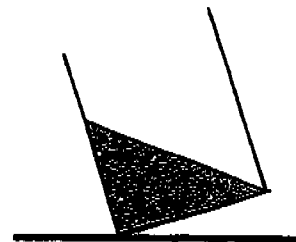
(2)



(3)



(4)



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12. Which cell part does not perform the function described?

(X)
(X)
(X)
(X)

Cell parts	Function
root hair cell	absorbs water
red blood cell	carries oxygen
muscle cell	contracts muscle tissues
cell wall	allows certain substances to pass through

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13. In which of the following processes is heat the cause of change ?

- Water turning into gas
- Dissolving sugar in water
- Germination of a seed
- Mixing blue and yellow dyes

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14. Tiny droplets of water called dew appear on the plants in the early morning.

What causes this to happen ?

- Evaporation of water
- Clouds turn into water
- Condensation of water vapour
- Rising temperature of plants

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15. As a mango tree grows, its trunk becomes thicker and its branches and roots become longer. The increase in size is possible because the _____.

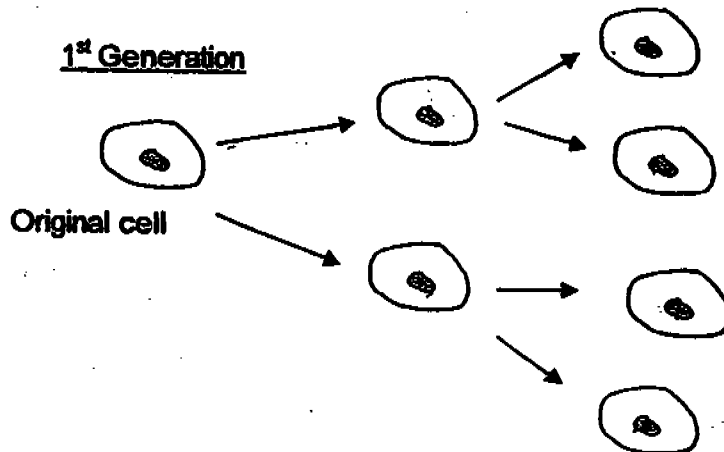
- roots take in water
- trunk takes in oxygen
- branches give out water
- plant cells increase in number

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Section B (20 marks)

Write your answers to questions 16 to 22 in the spaces provided.

16. The diagram shows how a cell divides to form new cells.



(a) How many cells will there be after 5 generations of cell division ? (1mark)

(b) What is another name for the original cell ? (1mark)

(c) Cell division is important for living things. Give one reason. (1 mark)

17. Fill in the blanks with the correct words. (5 marks)

(a) Similarities between animal and plant cells

Animal and plant cells have cell _____

_____ and _____

(b) Differences between animal and plant cells

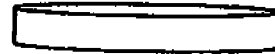
Animal and plant cells are different in that plant cells are surrounded

by a cell _____ and contain _____

18. Two different open containers filled with some water were left in the classroom at room temperature for a period of time. The volumes of water are shown in the table below.



Container A



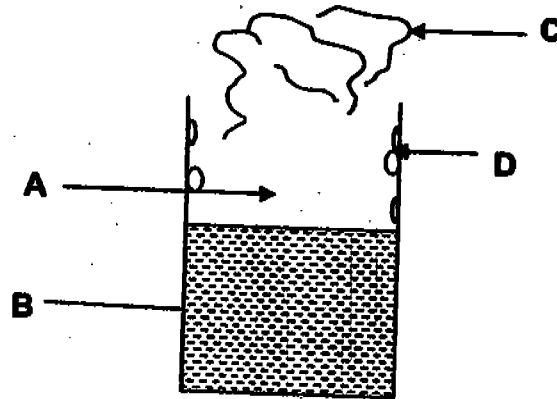
Container B

Container	Amount of water at the start of the experiment (ml)	Amount of water at the end of the experiment (ml)
A	80	70
B	80	30

- (a) Why is there a decrease in the amount of water in both containers ?
(1 mark)

- (b) Explain the difference in the remaining volumes of water in both containers :
(1 mark)

19. The diagram shows a beaker of boiling water.



(a) At which part of the diagram can steam be found? (1 mark)

(b) What form of water is steam? (1 mark)

(c) What process results in part D? (1 mark)

20. The diagram below shows a microscopic view of a cheek cell.



(a) What is part A? (1 mark)

(b) What is the function of A? (1 mark)

21. The table below shows Moonrise and Moonset times and the phases of the Moon.

Phases of Moon

New Moon : Fraction lighted = 0.00

Full Moon : Fraction lighted = 1.00

Day	Moonrise	Moonset	Phases (Fraction)
12.01.05	8.53 a.m.	9.16 p.m.	0.06
15.01.05	11.27 a.m.	11.48 p.m.	0.32
25.01.05	7.22 p.m.	7.03 a.m.	1.00
31.01.05	11.44 p.m.	11.20 a.m.	0.69
02.02.05	12.30 a.m.	12.50 p.m.	0.48
08.02.05	6.31 a.m.	6.55 p.m.	0.00

(Extracted from National Environment Agency - Meteorological Service., Singapore)

- (a) On which day could we see a crescent ? (1 mark)

- (b) Which phase of the Moon is sighted on 31 January ? (1 mark)

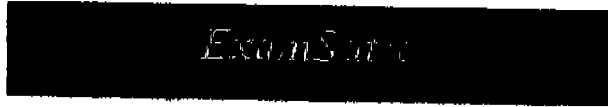
- (c) What is the Moonset time on 2 February ? (1 mark)

- (d) When is the Full Moon sighted ? (1 mark)

22. How many rotations about its axis will the Earth make from 31 January 2005 to 30 January 2006 ? (1 mark)

END OF PAPER

Methodist Girls Primary School
Primary 5 Science CA1 (2005)



Answer Sheets

Q1	Q2	Q3	Q4	Q5	Q6	Q7
1	2	3	3	4	4	4
Q8	Q9	Q10	Q11	Q12	Q13	Q14
1	3	3	1	4	1	3
Q15						
4						

- 16a. There will be thirty-two cells after 5 generations of cell division.
- 16b. Another name for the original cell is the parent cell.
- 16c. Cell division is important to living things because it replaces the old and damages cells.

- 17a. membrane
nucleus cytoplasm

- 17b. wall chloroplast

- 18a. There is a decrease in the amount of water in both containers because some water evaporated.

- 18b. Container A had more water because the exposed surface area was smaller than Container B and water could not evaporate as fast as container B.

- 19a. Steam can be found at A.
- 19b. Steam is a form of water in the gaseous state.

- 19c. The hot water vapour evaporated and condensed into water droplets when it comes into contact with the cool surface of the beaker.

- 20a. Part A is the cell membrane.

- 20b. The cell membrane is a semi-permeable layer that only allows some materials to move in out of the cell.

- 21a. We could see a crescent on the 12th of January 2005.
21b. The Gibbous moon is sighted on 31st of January.
21c. The moon set time on 2nd February is 12.50pm.
21d. The full moon is sighted on the 25th of January 2005
22. Earth will make 365 days rotations about its axis from the 31st of January 2005 to the 30th of January 2006.