SINGAPORE CHINESE GIRLS' SCHOOL
PRIMARY 5 SCIENCE PRACTICE PAPER 1

Name: _____ ( ) Date: 21 May
Class: Primary 5 SY Duration: 1hr 45 mins

Booklet A (56 marks)

For each question from 1 to , 4 options are given. One of them is the correct answer. Make your choice, (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.**

1. Elaine saw a fruit during a Science field trip. She wrote her observations in her Science Journal book. Which one of the characteristics of the fruit is the most useful to help Elaine to identify its method of dispersal?

1) Big
2) Round
3) Can be eaten
4) Can float on water

2. Which of the following statements is/are true?

A: Digestion of food begins in the mouth.
B: Food is digested in the large intestine.
C: Digested food is absorbed by the stomach.
D: Water is removed from digested food in the small intestine.

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

3. Sam read an article about scientists carrying out research on genes. He knows that the genes carry information about the organism. The genes can be found in the _____ which controls the activities within the cell.

1) nucleus
2) cytoplasm
3) chloroplast
4) cell membrane

4. Christine carried out a research on 2 animals, A and B. She observed them over a period of time. She recorded her observations in the table below.

Observation	Animal A	Animal B
The young looks like its adult	No	Yes
Has six legs	Yes	No
Lay eggs	Yes	Yes

Which of the following would be **correct**?

	Animal A	Animal B
1)	Grasshopper	Lizard
2)	Butterfly	Chicken
3)	Earthworm	Mouse
4)	Beetle	Cat

5. Mrs Lim intends to wash her pillows and bolsters. She checked the weather forecast to find out which day has favourable weather conditions to allow her pillows and bolsters to dry quickly. Which is the most suitable day for Mrs Lim to do her washing?

Day	1	2	3	4
Temperature range (°C)	23 – 28	24 – 28	24 – 33	25 – 33
Description	 Thunderstorm	 Cloudy	 Rain	 Windy

6. Benny recorded the states of 4 substances A, B, C and D at different temperatures.

Substance	30°C	60°C	90°C
A	solid	liquid	gas
B	solid	gas	gas
C	liquid	liquid	gas
D	solid	liquid	liquid

He concluded that the melting points of substances _____ are likely to be between 30°C and 60°C.

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

7. Four pupils observed some cells on a slide using a microscope. They managed to identify some parts of the cells. Their observations are recorded in the table below. From the table, who observed animal cells?

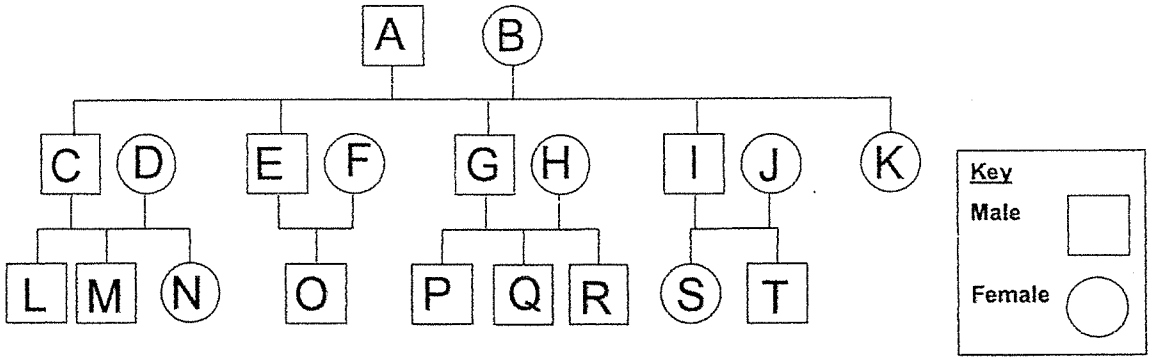
	Name	Cell parts identified
1)	Ann	Cytoplasm, chloroplast, nucleus
2)	Bala	Cell membrane, nucleus, cytoplasm
3)	Catherine	Nucleus, cell membrane. cell wall
4)	Dennis	Chloroplast, cytoplasm, cell membrane

8. Andrea's uncle said that Andrea resembles her father. Which of these traits could be passed down from her father to her?

A: Dimples
B: Eye colour
C: Hair length
D: Fingerprints

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

Refer to the diagram below to answer questions 9 and 10.



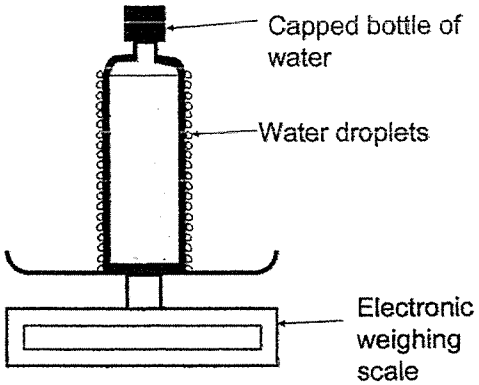
9. Sarah has 2 brothers. Which letter in the above diagram represents Sarah?

1) I
2) L
3) N
4) R

10. How many grandsons does couple A and B have?

1) 5
2) 2
3) 7
4) 9

11. George froze a bottle of water in the freezer overnight. He then placed the bottle on an electronic weighing scale immediately after taking it out. The first reading of the mass was 23.00g. He left the bottle on the weighing scale. The diagram below shows the set-up after 15 minutes.



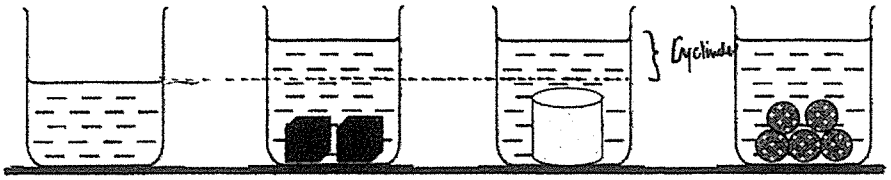
George took a second reading of the mass after 15 minutes. What will the mass measured by the weighing scale be?

1) Exactly 23.00g
2) Less than 23.00g
3) More than 23.00g
4) Not possible to tell

12. Janice made a mug of tea with boiling water. She left it on her study table overnight. The initial room temperature was 30°C. She switched on the air-conditioner to a temperature of 25°C. What will the temperature of the mug of tea be in the morning?

1) 25°C
2) 30°C
3) 50°C
4) 100°C

13. Jasmine filled 4 identical beakers with the same amount of water. She placed some objects into 3 of the beakers as shown in the diagram below.



Original water level | 2 identical cubes | 1 cylinder | 5 identical balls

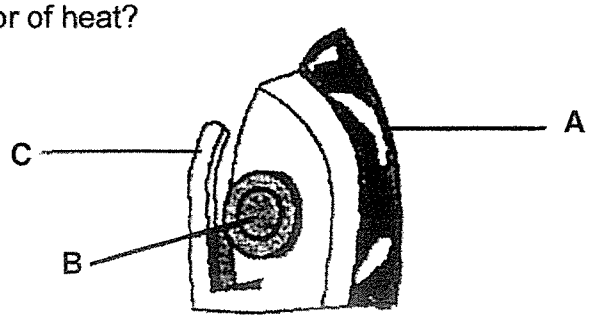
She noticed that the increase in water level for all three beakers is the same when she placed the objects in the water. What can she conclude from her experiment?

1) The volume of 3 balls is more than the volume of a cube.
2) The volume of the cylinder is the same as the volume of one ball.
3) The volume of a cube is twice as much as the volume of the cylinder.
4) The volume of the cylinder is greater than the original amount of water.

14. Leonard bought some quail eggs from the wet market and put them into an incubator. After 2 months, the eggs did not hatch. Which one of the following is the most likely reason why the eggs did not hatch?

1) The eggs were not fertilised.
2) The eggs were too small to hatch.
3) The embryo did not have enough oxygen.
4) The eggs can only hatch when the mother quail incubates them.

15. The diagram below shows an electric iron. Which of the part/s labelled is/are made of good conductor of heat?

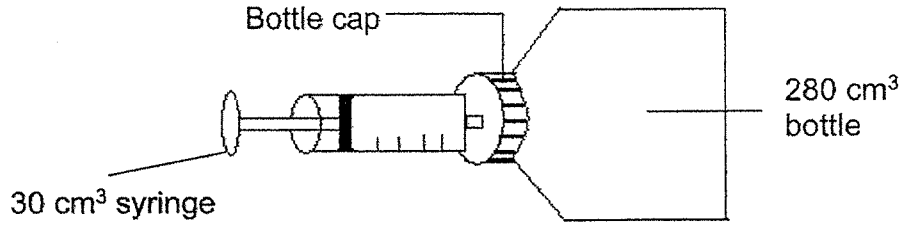


1) A only
2) A and B only
3) B and C only
4) A, B and C

16. Which of the following correctly shows the difference between inhaled air and exhaled air?

		Inhaled air	Exhaled air
1)	Temperature	Higher	Lower
2)	Percentage of oxygen	More	Less
3)	Amount of water vapour	More	Less
4)	Percentage of carbon dioxide	More	Less

17. Hera took a 30 cm^3 syringe and filled it with air. She poked a hole through a bottle cap and pushed all the air out of the syringe into an empty bottle with a capacity of 280 cm^3. After that, she sealed the bottle cap with sticky tape to prevent any air from escaping. What is the volume of air in the bottle now?



1) 30 cm^3
2) 250 cm^3
3) 280 cm^3
4) 310 cm^3

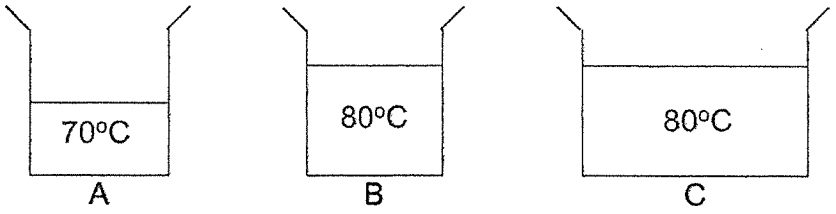
18. Nur placed 5 pieces of coloured paper on a flat, grassy surface. There was 1 piece of paper per colour. She put a few stones around the edges of each coloured paper as paper weights and sat nearby quietly. She made a table below of the number of insects which landed on each coloured paper. What are the possible conclusions based on the findings?

	Fly	Bee	Moth	Gnat	Butterfly
Red	-	2	3	-	5
Yellow	-	12	-	3	-
Green	2	1	-	1	-
Blue	8	-	-	-	-
Purple	1	2	6	-	3

A: Purple attract the most types of insects.
B: Yellow attracted the most number of insects.
C: Moth and butterfly are attracted to the same colours.
D: The bee is attracted to yellow, green, blue and purple colours.

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

19. The 3 beakers of water below contain different amounts of water at different temperatures. Arrange the beakers of water according to the amount of heat they contain from the least to the greatest.



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

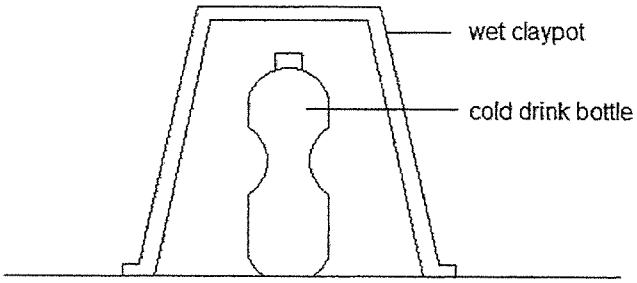
20.

All the 3 objects above are made of iron. Only objects Q and R are magnets. Which of the following statement/s is/are possible?

A: C repels B.
B: C attracts A.
C: D repels E.
D: F attracts B.

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

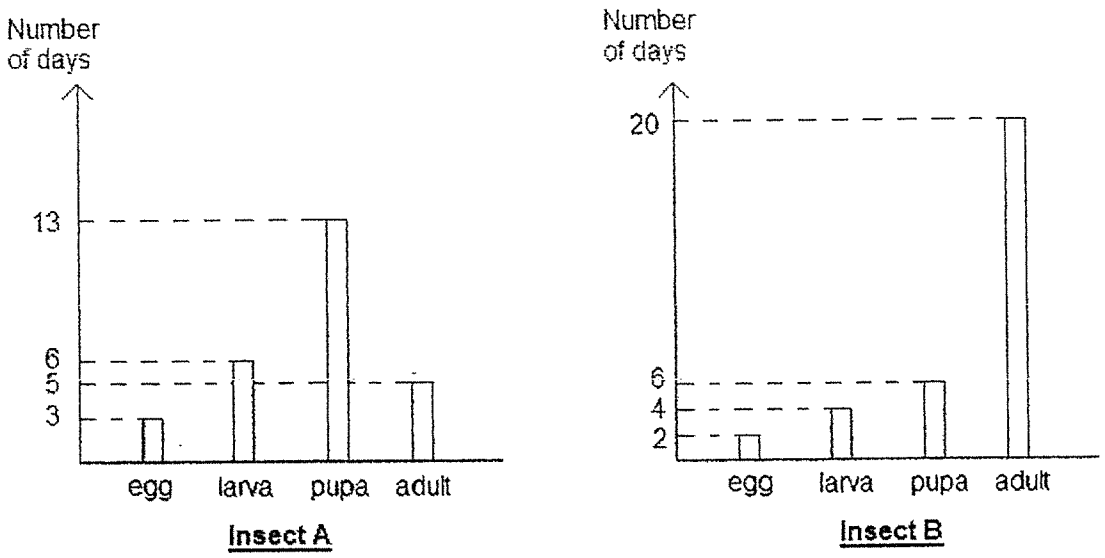
21. A cold drink can be kept cool by placing a wet claypot over it as shown in the diagram below. The claypot had previously been soaked in water.



What is a possible reason for the drink remaining cold?

1) Evaporation of water from the wet claypot caused cooling.
2) Condensation of water on the wet claypot caused cooling.
3) Evaporation of water in the cold drink bottle caused cooling.
4) Condensation of water on the cold drink bottle caused cooling.

22. Look at the graphs below carefully.
They show the number of days the two insects spent in each stage of their life cycle.

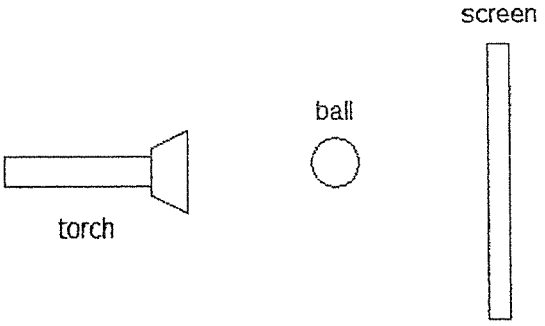


Both insects breed all the time.

Which of the following statements is true?

1) A lays more eggs than B.
2) B lays more eggs than A.
3) It takes B a longer time to become an adult than A.
4) It takes A a longer time to become an adult than B.

23. Jasmine set up an experiment as shown in the diagram below.



Which of the following will make the shadow larger?

A: The torch is moved closer to the ball
B: The screen is moved closer to the ball
C: The screen is moved away from the torch

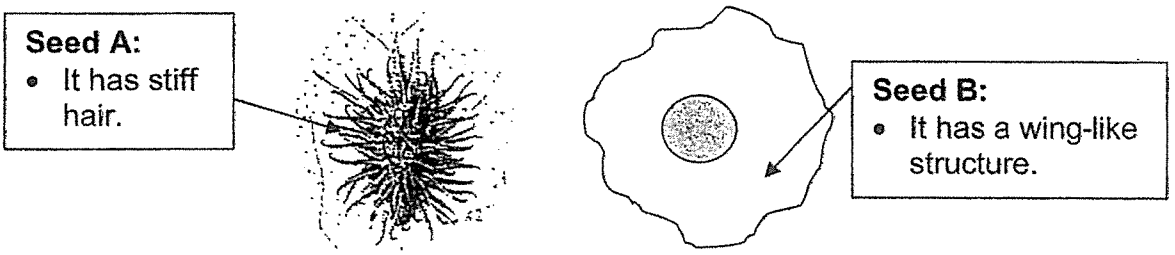
1) A and B only
2) A and C only
3) B and C only
4) A, B and C

24. Arrange the following statements in order to show how the fruit is developed.

A: Pollen tube from the pollen grain starts to grow.
B: Pollen grain from the anther lands on the stigma.
C: The pollen tube grows down the style into the ovary.

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

25. Tim picked up Seed A and Seed B in his garden as shown below.



Based on Tim's observation of seeds A and B, what conclusion can Tim make?

1) Seed A and B are dispersed by wind.
2) Seed A and B are dispersed by animals.
3) Seed A always travels a longer distance than seed B.
4) Seed A is dispersed by animals but seed B is dispersed by wind.

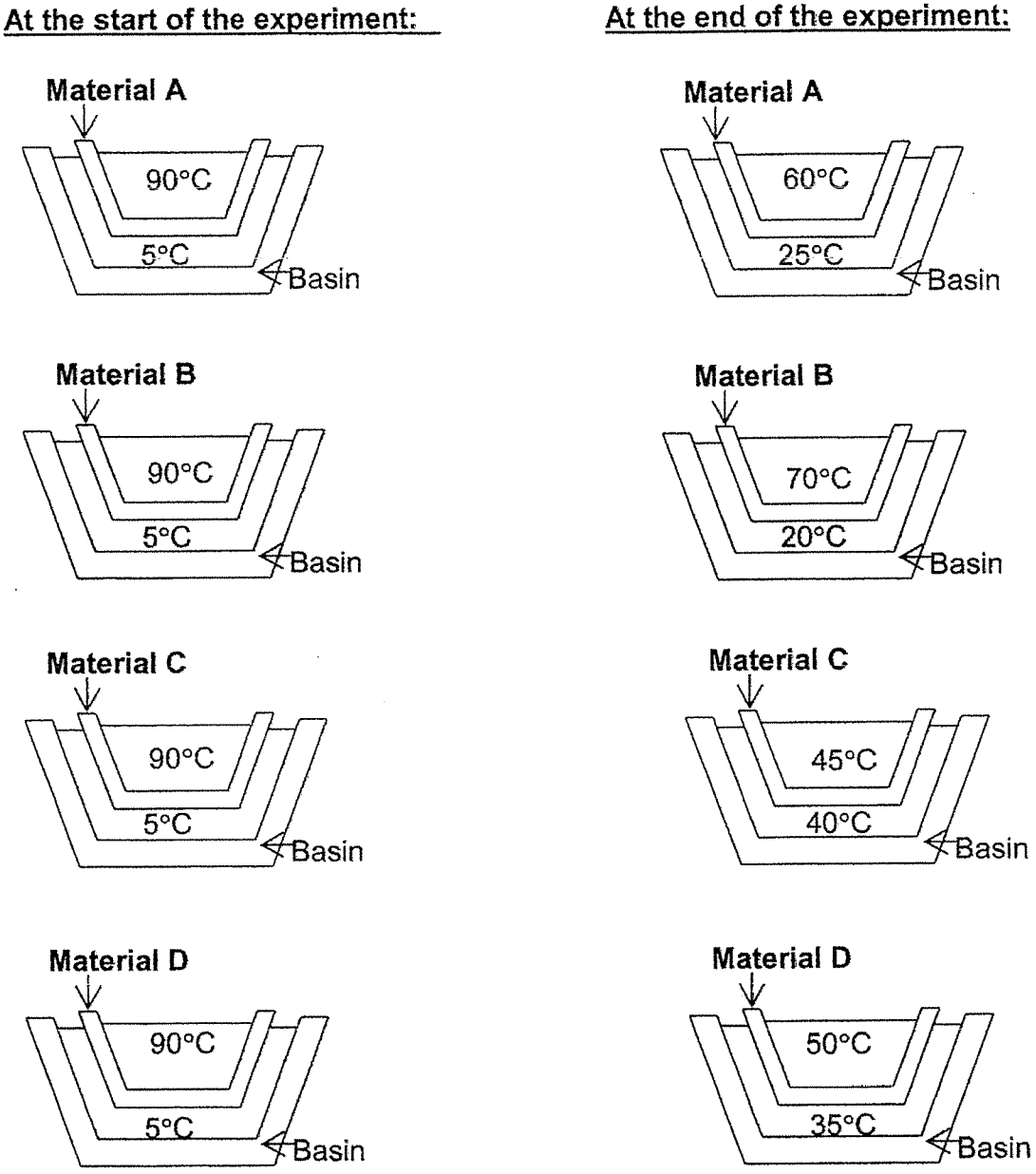
26. Ellie's aunt told her that plants can help to reduce the temperature in a room. She placed 4 different types of Plants W, X, Y and Z in 4 similar rooms for a week. She recorded her findings in the table below.

Plants	Initial temperature of rooms without the plants (°C)	Final temperature of room with plants (°C)
Plant W	30	27.5
Plant X	30	29.5
Plant Y	30	28.3
Plant Z	30	25.2

Which plant should she place in her room if she wants to keep herself cool on a very hot day?

1) Plant W
2) Plant X
3) Plant Y
4) Plant Z

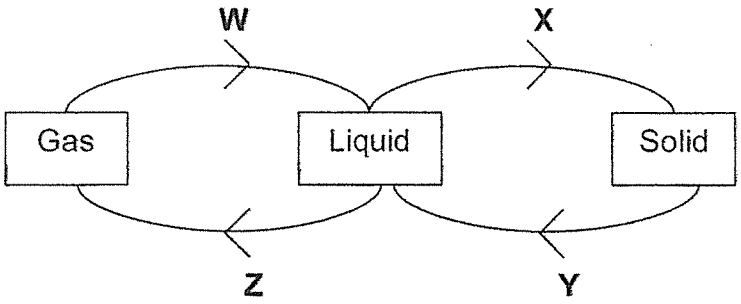
27. Meiyi had 4 basins made of the same material. She poured a litre of water of temperature 5°C into each of them. She then got 4 containers of the same size that were made of different materials, A, B, C and D, and filled each of them with a litre of water of temperature 90°C. She set up the experiment as shown below. After 15 minutes, she measured the temperature of the water in the 4 containers and 4 basins.



Which is the best material for making the base of a frying pan?

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

28. The diagram below shows the states of water at different temperatures.



During which two processes will water lose heat to the surroundings?

1) W and X only
2) W and Y only
3) X and Z only
4) Y and Z only

SINGAPORE CHINESE GIRLS' SCHOOL (PRA1)
PRACTICE PAPER 1
PRIMARY 5 SCIENCE

Booklet A

Q1	4	Q6	4	Q11	3	Q16	2	Q21	1	Q26	4
Q2	1	Q7	2	Q12	1	Q17	3	Q22	4	Q27	3
Q3	1	Q8	2	Q13	1	Q18	3	Q23	2	Q28	1
Q4	2	Q9	3	Q14	1	Q19	1	Q24	3		
Q5	4	Q10	3	Q15	1	Q20	3	Q25	4		

1

2ND