

ACADEMIC SESSION FINAL EXAM
SCIENCE YEAR 6

SCIENCE
1 HOUR 15
MINUTES

For the Use of Question Examiners			
Name of Examiner:			
SECTION Question number		Full Marks	Scores Earned
A	1 – 10	10	
B	11	4	
	12	4	
C	13	6	
	14	6	
	15	10	
	16	10	
TOTAL		50	

DO NOT OPEN THIS TEST PAPER UNTIL NOTIFIED

- This test paper contains 3 parts.
- **Part A**(10 marks) : contains 10 multiple choice questions.
- **Part B**(8 marks) : contains 2 questions of various forms.
- **Section C**(32 marks) : contains 4 structured questions.
- Read and answer all the questions in the space provided accurately.

NAME:

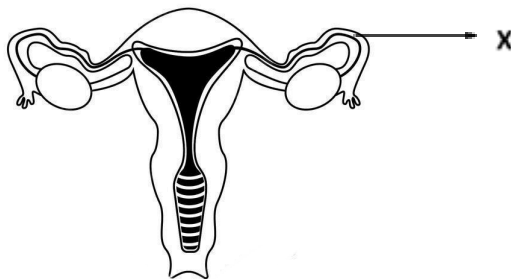
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CLASS :
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PART A

(10 MARKS)

Answer all questions

1. The diagram below shows the female reproductive organs.



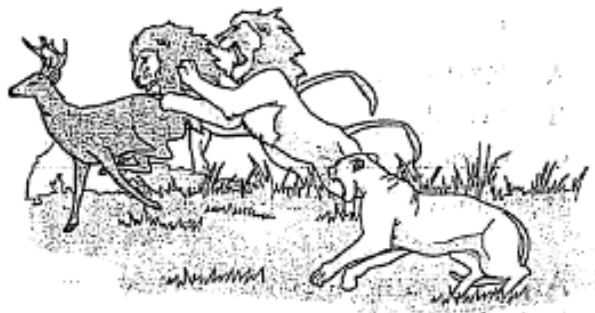
What will happen if the X tube is blocked?

- A.** Ovum is not produced
 - B.** The fertilization process will not occur
 - C.** The embryo cannot develop and grow
 - D.** Sperm cannot be channeled into the reproductive organs
2. The diagram shows the condition of a child.



What are the best preventive measures that can be taken to prevent this epidemic from spreading?

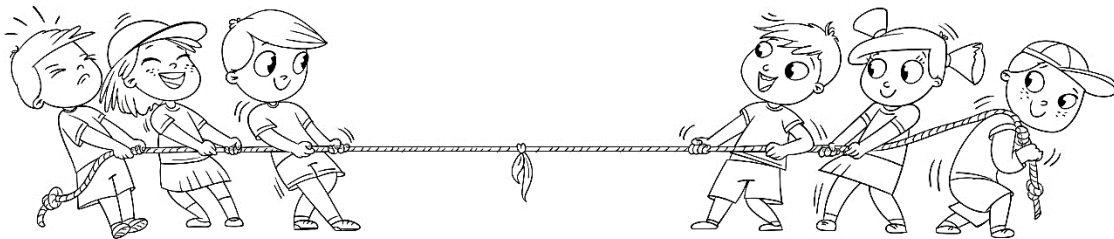
- A.** Not leaving the house for a week
 - B.** Shower and wash your hands frequently
 - C.** Wear a face mask at all times
 - D.** Share personal items with family members
3. Mrs. Mei wants to make donuts. He found that the dough that was kneaded did not rise well. How can Mrs. May overcome this problem?
- A.** Add a pinch of salt when dissolving the yeast
 - B.** Add a spoonful of sugar when dissolving the yeast and use warm water
 - C.** Use cold water when dissolving the yeast and mixing with the mixture.
 - D.** Use freshly boiled water to dissolve the yeast and mix in the mixture
4. The diagram shows a competition.



Among the following competitive factors, what is the competitive factor that causes this situation to occur?

- A. Water**
- B. Couples**
- C. Food**
- D. Area**

5. The diagram below shows a group of students competing in a school competition.



What actions can be taken to help the students win in the competition?

- A. Wear thick gloves**
 - B. Wearing slippers with rough soles**
 - C. Using magnesium carbonate chalk powder on hands**
 - D. Do not wear shoes while pulling the rope**
6. The diagram shows one of the race events.



Which of the following tools helps accurately determine victory in a running event?

- A. Stopwatch
- B. Tape measure
- C. Digital clock
- D. Weighing scales

7. The table below shows the condition of M, N and K food that has been spoiled.

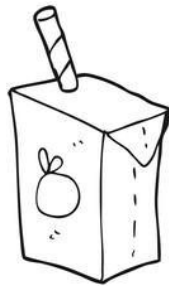
Type of food	Food situation
M	Black, slimy and foul smelling
N	Sour, bubbly and lumpy
K	There are black spots and a musty smell

Based on the table above, which represents M, N and R correctly?

A.	M	N	K
	Chicken	Milk	Bread

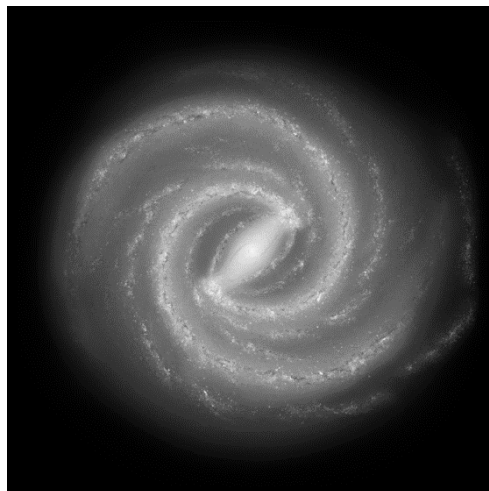
B.	Milk	Banana	Vegetables
C.	Fish	Carbonated water	Milk
D.	Octopus	Rice	Fish

8. Which of the following is the most suitable preservative combination for orange juice?



- A.** Refrigeration and vacuum packaging
- B.** Pasteurization and cooling
- C.** Pickling and lighting
- D.** Pasteurization and cooling

9. The diagram below shows the galaxies in the universe.



Which of the following statements is true about the above galaxy?

- A.** The Milky Way galaxy is smaller than the Solar system
- B.** It is a barred spiral galaxy consisting of two arms
- C.** A galaxy consists of a solar system that surrounds it
- D.** It is an elliptical type galaxy consisting of millions of Stars

10. The diagram below shows two methods of plowing.



X



Y

Which of the following is good that occurs if way X is replaced by way Y?

- A.** Plowing time is faster, easier and saves energy
- B.** More money is needed to buy farming tools
- C.** Plants do not grow lushly and quickly wither
- D.** More skilled work is needed in this area

SECTION B

(8 MARKS)

Answer all questions

1.(a) Match the given human reproductive organs with the correct function.

Reproductive Organs

Function

Passes sperm into the female reproductive organs
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Testicles

•

•

Where the ovum is produced

Ovaries

•

Where sperm are produced

•

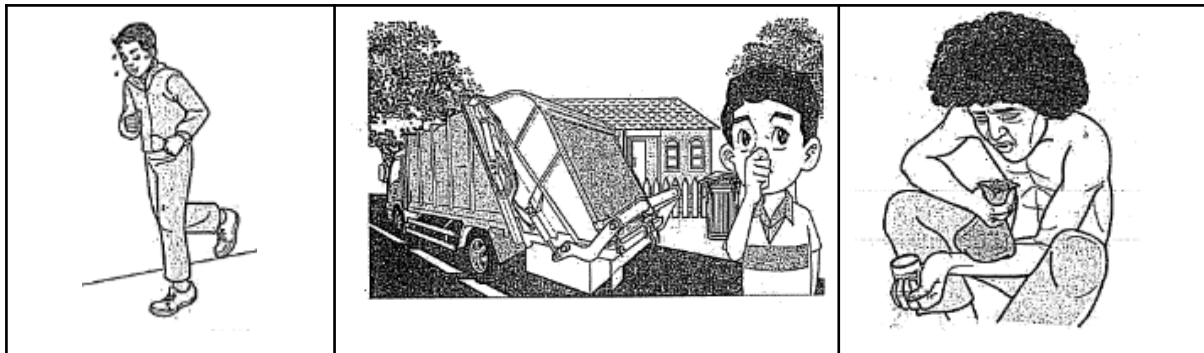
Where the fetus grows

(2 marks)

(b) The diagram below shows the signal flow that occurs in the human nervous system.

Stimulus**Sense organs****Spinal nerve****Body response**

Based on the stimulus flow above, circle the picture that shows the situation involved above.



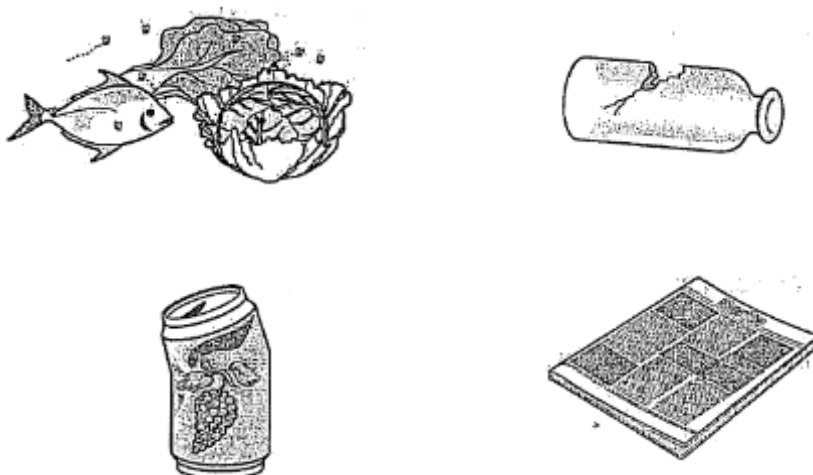
(1 mark)

Among the following, mark (/) on the statement that supports your answer choice.

Conscious actions under human control	
Reflex action that happens quickly without realizing it	

(1 mark)

2. The diagram below shows four different types of waste.



Classify the objects above according to the type of biodegradable and non-biodegradable materials.

Non-biodegradable material	Biodegradable material
i.....	i.....
ii.....	ii.....

(2 marks)

(b) The diagram below shows a situation that often occurs.



What will happen if the above situation happens continuously and is not controlled?

Mark (/) for the correct answer.

- (i) The surrounding conditions will become cleaner
- (ii) Animals get more food
- (iii) Aquatic life will decrease and die
- (iv) Flash floods are frequent

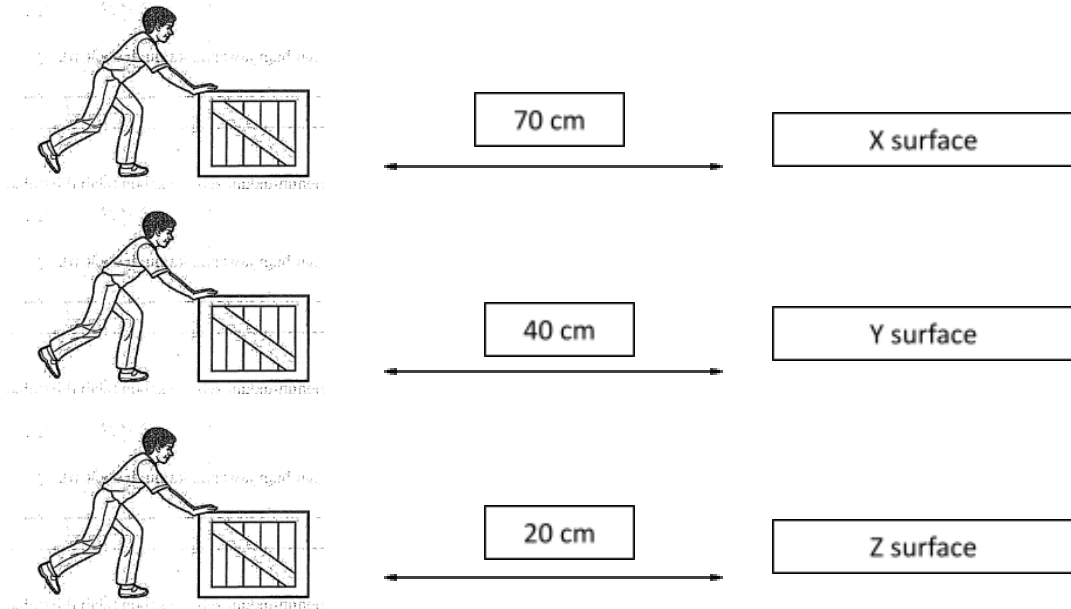
(2 marks)

SECTION C

(32 MARKS)

Answer all questions

1. Syafikah and his friend conducted a friction test. They conduct the experiment as below by pushing the same load until it stops on different tracks.



- a. State ONE observation obtained from this experiment.

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.....
.....

(1 mark)

- b. Give your inference based on the answer in (a).

.....
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.....

(1 mark)

- c. What is the purpose of the above experiment?

.....
.....
.....

(1 mark)

d. Transfer the recorded data in the form of a bar chart



(1 mark)

e. What can be associated with the type of surface with the stop load distance?

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.....
.....

(1 mark)

2. Group 1 received a card containing a problem statement as below.

Problem statement

Does the area of the construction site affect its stability

- a. Build a hypothesis that can be tested from the problem statement above?

.....
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.....

(1 mark)

- b. Based on the investigation carried out, state:

- i. How to control manipulated variables

.....
.....
.....

(1 mark)

- ii. The response variable

.....

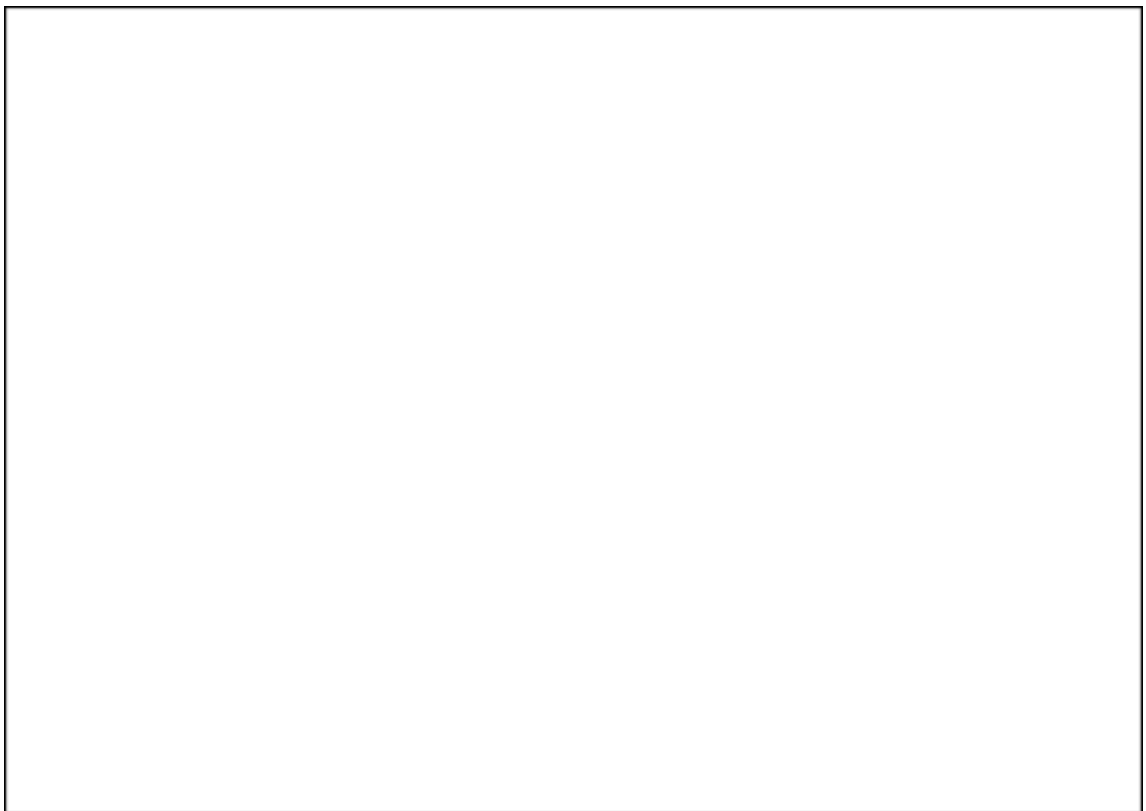
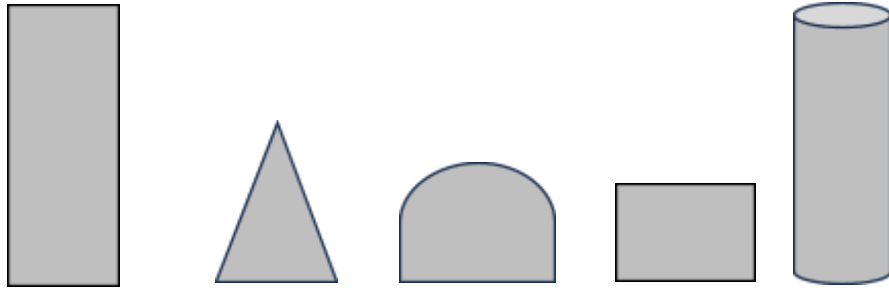
(1 mark)

- iii. Variables are constant

.....

(1 mark)

- c. You are given several forms of construction. Sketch ONE stable construction clearly.



(2 marks)

3. The information below shows the data obtained in January - May 2023 about the outbreak of Influeza disease in a district hospital.

Information 1 Month: January Number of cases: 50	Information 2 Month: February Number of cases: 150	
Information 3 Month: March Number of cases: 200	Information 4 Month: April Number of cases: 250	Information 5 Month: May Number of cases: 300

- a. Based on the information that has been recorded, build a table in the space provided.



(2 marks)

- b. What is the purpose of the above investigation?**

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(1 mark)

- c. What is the pattern of change in the number of cases throughout the months of January - June 2023?

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...

(1 mark)

- d. Based on the data above, predict the number of cases in June?

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(1 mark)

- e. What causes influenza?

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(1 mark)

- f. Suggest TWO preventive measures that can be taken to avoid this epidemic?

- i.
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- ii.
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.....

(2 marks)

g. In order to increase productivity, employers give permission to employees to continue working from home for individuals infected with Influenza.

i. Is this employer's action reasonable?

.....

ii. Give your reasons.

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(2 marks)

4. The diagram shows two types of fish that Ina bought from the market



Q



P

a. State TWO situations if fresh fish P is left on the table for 2 days

i.

ii.

(2 marks)

b. Ina found dry fish, S can last longer.

i. What food preservation methods are used?

.....

ii. Explain the method used.

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(2 marks)

c. What growth factor is removed in the fish preservation method in (b)?

.....
.....

(1 mark)

d. Ina has bought a lot of fresh fish and shrimp for her family members who live in town X. The journey from Ina's house to her family members' house is 8 hours long.

i. What should Ina do to ensure that the fresh fish she bought does not spoil?

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(1 mark)

ii. Besides fish, name ONE other food that can be preserved this way.

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(1 mark)

e. What does food preservation mean?

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(1 mark)

- f.** Combination preservation is combining several preservation methods so that food lasts longer.

State ONE preservation method that can be combined for fish S.

.....
.....

(1 mark)

- g.** What is the importance of preservation methods to us?

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(1 mark)