



PURSUIT OF EXCELLENCE EXAMINATIONS BOARD

PRIMARY LEAVING MEGA SET EXAMINATION

2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District Id No.

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Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **15 Printed pages** altogether.
3. Answer **all** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table:
"FOR EXAMINER' use only" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A: 40 MARKS

Questions **1** to **40** carry **one** mark each.

1. Name the human body organ that is used for storing information.

.....

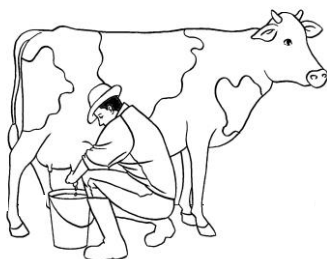
2. Give any **one** effect caused by deforestation in an environment.

.....

3. State the main characteristic that makes a bat to be referred as a mammal.

.....

The diagram below shows a farmer carrying out certain activity on a cattle farm. Study and use it to answer questions **4** and **5**.



4. What cattle product is obtained through the activity shown above?

.....

5. Name any **one** exotic breed of cattle that is mainly kept for the purpose of obtaining the named product in (**4**) above.

.....

6. Give **one** sign and symptom of hookworm infestation in humans

.....

7. What form of energy is produced from water tides?

.....

8. Give any **one** example of a plant that reproduces by use of spores.

.....

9. State the reason why the sun is referred to as a luminous body in the environment.

.....

.....

10. Name the type of teeth that is suitable for biting and cutting food.

.....



11. Give any **one** way in which the birds of prey are adapted to their mode of feeding.

.....

.....

12. Which element of weather causes drought in an area?

.....

13. State any **one** way in which friction is useful to a P.7 pupil during the session of learning in a class.

.....

.....

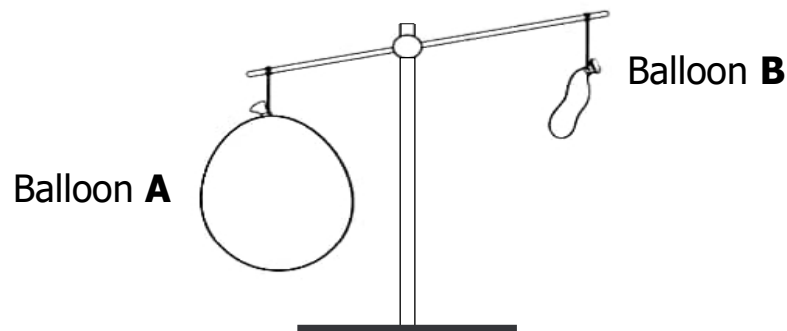
14. Name the component of air that is used in soda preservation.

.....

15. Which method of preparing water involves evaporating and condensing the vapour in cold water?

.....

Use the diagram about the property of air below to answer questions **16** and **17**.



16. Which balloon is heavier according to the property of air shown above?

.....

17. State the property of air demonstrated in the above diagram.

.....

18. Name the human body organ that excretes bile pigment from the body.

.....

19. Apart from nectar, name any other **one** substance honeybees extract from flowering plants.

.....

20. In which way do houseflies contribute to food contamination?

.....



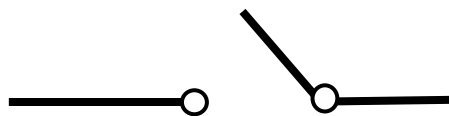
21. Name any **one** instrument used in displacement method.
.....
22. Mention the part of a seed that develops into shoot system during germination?
.....
23. In which **one** way is the air we breathe in different from the air we breathe out?
.....
.....
24. Give any **one** way in which solar radiation is useful to people.
.....
25. What accident results from sudden discharge of electricity into the victim's body?
.....
26. Give **one** reason why transplanting seedlings is mainly done during evening hours.
.....
27. In which way is the direction of flow of blood in the human heart maintained?
.....
28. Give any **one** role played by the Young Farmers' Clubs in a school.
.....
29. State any **one** way in which the effect of crop pests is controlled in a garden.
.....
.....

30. Which type of chicken do poultry farmers rear in order to obtain two main products?

.....



Use the diagram of the electric symbol below to answer questions **31** and **32**.



31. Identify the electric symbol shown in the above diagram.

.....

32. Give the importance of the named symbol in (**31**) above in an electric circuit.

.....

33. Why is it advisable to keep drugs out of children's reach?

.....

.....

34. What happens when a female reproductive cell fuses with a male reproductive cell?

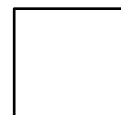
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35. State any **one** way in which floods can be managed in an area.

.....

.....

36. In which way does the vent pipe of **VIP** latrines help to reduce bad smell in a community?
.....
37. Name the fossil fuel that is formed from plant remains.
.....
38. State any **one** way in which insulators of heat are applied in our daily life.
.....
39. In which way are flowering plants able to colonise new fresh areas?
.....
40. What happens to light rays when they hit a smooth shiny surface?
.....



SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each.

41. (a) Name any **one** vector that spreads diarrhoeal diseases to humans.

.....

- (b) Give any **one** example of a diarrhoeal disease in humans.

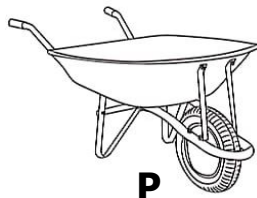
.....

- (c) State any **two** ways a P.7 pupil can control diarrhoeal diseases in a home.

(i)

(ii)

42. Use the diagram of the garden tools below to answer the questions that follow.



- (a) Name the garden tools marked with letter;

(i) **P**

(ii) **Q**

- (b) Give the use of the garden tool marked **P** on a farm.

.....

- (c) In which way does painting of the above garden tools with vaseline safeguard them from rusting?

.....

43. (a) Give any **one** piece of information collected during demography on the following;

(i) Housing

.....

(ii) Health services

.....

- (b) State any **one** reason for carrying out demography in an area.

.....

- (c) Give any **one** way of controlling community health and social problems in an area.

.....

.....



44. The table below shows diseases and vectors. Use it to fill in the blank spaces.

Disease	Vector
Yellow fever
.....	Rabid dog
Trachoma
.....	Black fly

45. (a) Name the animal fibre obtained from the following animals;

(i) Angora goats

.....

(ii) Merino sheep

.....

(b) Mention any **one** viral disease that attacks both goats and sheep on a farm.

.....

(c) Give any **one** way of controlling diseases of goats and sheep on a farm.

.....

Use the table showing the group of mammals below to answer the questions that follow.

Group: A	Group: B	Group: C
Lion Coyote	Sugar glider Wombat	Whale Porpoise

46. (a) Name the group of mammals that belong to;

(i) Group **B**

.....

(ii) Group **C**

.....

(b) Which type of food is fed on by the mammals in group **A**?

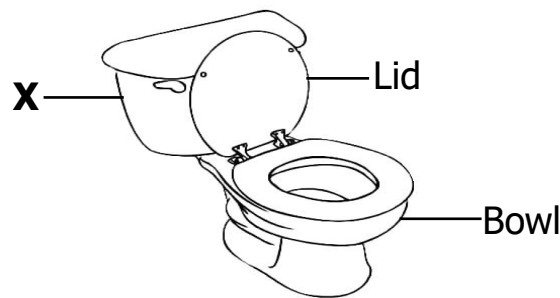
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- (c) Give any **one** other group of mammals apart from the above listed in the table.

.....

Use the diagram of the waterborne toilet below to answer the questions that follow.



47. (a) Identify the waterborne toilet drawn above.

.....

- (b) Give the use of the part marked **X** when using the above named toilet in **44 (a)** above.

.....

- (c) State any **two** ways of maintaining the above toilet in a good working condition.

(i)

.....

(ii)

.....

48. (a) Mention the **two** groups of tuber crops grown by farmers.

(i)

(ii)

(b) How are the following tuber crops propagated?

(i) Sweet potatoes

.....

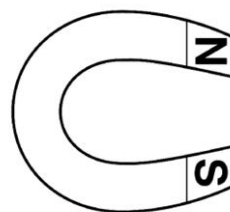
(ii) Irish potatoes

.....

49. Use the diagram of the magnets below to answer the questions that follow.



Magnet **X**



Magnet **Y**

(a) Name the drawn magnets marked with letter;

(i) **X**

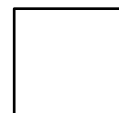
(ii) **Y**

(b) State the directive property of a magnet.

.....

(c) Give any **one** way in which magnets are applied in daily life.

.....



50. (a) Give the meaning of the following as used in vulnerable groups of people.

(i) Invalid

.....

.....

(ii) Convalescent

.....

.....

(b) State any **two** ways of caring for vulnerable groups of people.

(i)

(ii)

51. (a) Name the type of movable joint found in the wrist and ankles of the human body.

.....

(b) In which way are movable joints useful in the human body?

.....

(c) Give any **two** ways in which friction is reduced in movable joints.

(i)

.....

(ii)

.....

52. The table below shows the given seed in part **A** and its mode of dispersal in part **B**.

A: Seed	B: Mode of dispersal
Mango	- Wind dispersal
Castor oil	- Water dispersal
Coconut	- Animal dispersal
Dandelion	- Self explosion

Match correctly the seed in part **A** with the mode of its dispersal in part **B**.

Mango

Castor oil

Coconut

Dandelion



53. (a) State any **two** reasons for seasoning wood for timber under shade.

(i)

.....

(ii)

.....

- (b) Give any **two** groups of trees grown on a woodlot according to their purposes.

(i)

(ii)

54. (a) Name the **two** permanent family planning methods.

(i)

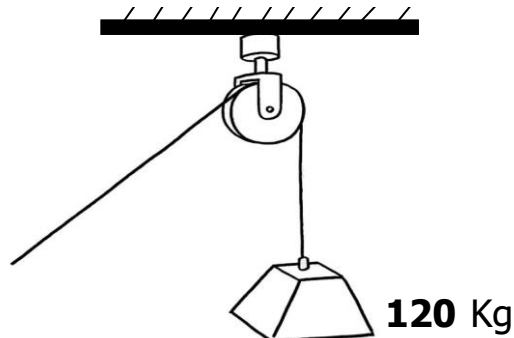
(ii)

(b) Give any **two** advantages of correct child spacing in a family.

(i)

(ii)

55. Use the type of the pulley below to answer the questions that follow.



(a) Name the type of pulley drawn above.

.....

(b) Use letter **E** and an arrow to show the direction of effort movement.

(c) Calculate the effort needed to raise the load of **120 Kg**.
(02 marks)



