

GIANT EXAMINATIONS BOARD.

INTEGRATED SCIENCE MOCK 1 2024

Time Allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID:

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Read the following instructions carefully:

1. Do not write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions (**40 marks**) and section **B** has **15** questions (**60 marks**).
3. Answer **all** questions. **All** answers for 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 indicated: "**For Examiners' 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)

1. Name the method used to find volume of irregular objects.

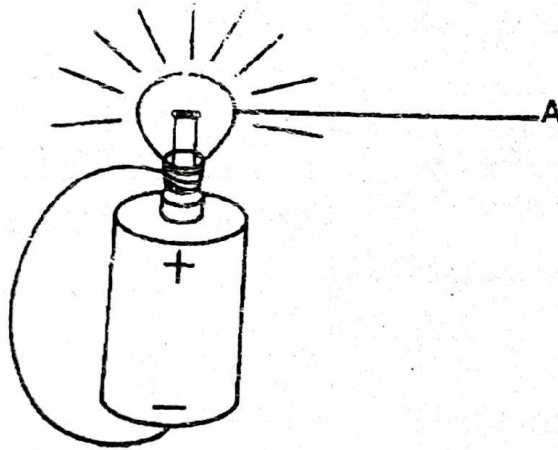
2. State the type of cattle kept for providing labour on a farm.

3. What is meant by the term "seed dispersal"?

4. Give the similarity in function between joints and muscles in the human body.

5. Which kind of accident requires a first aider to apply mouth-to-mouth breathing to the casualty?

The diagram below is of a complete circuit. Study it to answer questions 6 and 7.



6. State the energy change that is taking place in part A.

7. Using arrows, show the flow of electrons in the above circuit diagram.

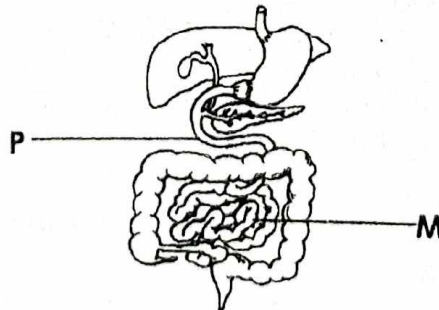
8. Mention any **one** cause of silting.

9. What advice would you give to a family whose ordinary pit latrine smells badly?

10. Name the part of an insect compared with semicircular canals of humans in terms of function.

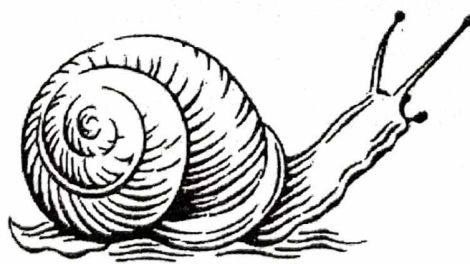
11. Mention the type of soil which can be used for filtering muddy water.

The diagram below shows part of the digestive system. Use it to answer questions 12 and 13.



12. Which class of food is digested in part marked **P**?
13. Give any **one** adaptation of part **M** to its function.
14. In which way can a farmer use animal dung to reduce on deforestation for wood fuel?
15. Write down any **one** antisocial behavior common among school children.
16. State the difference between a toad and lizards in their way of reproduction.
17. How does sun drying of millet prevent it from rotting?
18. Identify any **one** tick borne cattle disease caused by bacteria.
19. Write down **one** nonrenewable energy resource.
20. Mention **one** role played by a school health club in the promotion of immunization programme.
21. Give **one** advantage of pruning perennial crops.
22. Name the method of heat transfer that enables a cook to light a charcoal stove.
23. Why are Irish potatoes grouped under stem tubers?
24. Give a reason why images cannot be formed on a blind spot.
25. How is a maize plant able to avoid cross pollination?

The diagram below is of invertebrate. Study it to answer questions 26 and 27.



26. To which group of invertebrates does it belong?
27. State **one** danger of the above invertebrate to people.
28. Why is dew formed at night?

29. Identify **one** plant that reproduces by means of spores.
30. Why does a person with hookworm infestations become anaemic after some time?
31. Mention **one** way a child acquires natural immunity.
32. Give **one** factor that affects the rate of transpiration.
33. Apart from causing diseases, state **one** other disadvantage of fungi to people.
34. Name the type of thermometer that makes use of both alcohol and mercury.
35. In the space provided, draw any **one** craft product in your home.

36. State any **one** cause of dehydration.
37. In which way does painting of metals protect them from corrosion?
38. What type of change is expansion and contraction of a wire?
39. Apart from producing sperms, give **one** other function of testicles to the reproductive system.
40. Mention **one** proper method of harvesting trees in agroforestry.

SECTION B: (60 Marks)

41. (a) Mention **one** organ of gaseous exchange in adult frogs.
- (b) Why do frogs spread a jelly-like substance on their eggs during the spawning process?
- (i) _____
- (ii) _____
- (c) How are frogs adapted to overcoming friction in water?
42. Given the organisms below;
rat , fungi , grass , cat
- (a) Construct a food chain from the organisms above.
- (b) State what would happen to cats if the population of rats was increased in the above food chain.

(c) Give a reason for your answer.

(d) Write down the source of energy in a food chain.

43. The boxes below show the steps taken to clean clothes at home.



(a) Name the steps of cleaning clothes marked A and B.

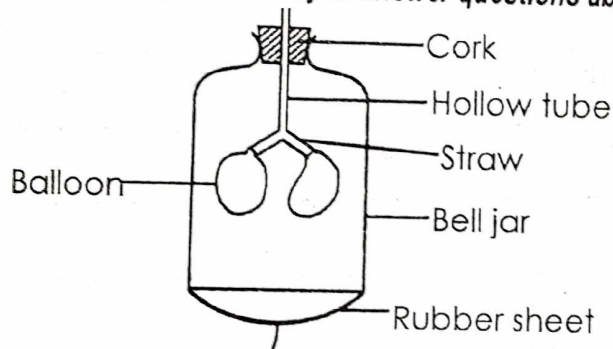
(i) A

(ii) B

(b) State **one** factor considered when carrying out step A.

(c) Mention the method used to prepare clean water by allowing solid impurities to settle at the bottom of the container.

44. The experiment below was carried out by a P.7 class to demonstrate an important body process. Study it carefully to answer questions about it.



(a) Identify the body system represented in the above set up.

(b) Which part of the human body does the hollow tube represent?

(c) What would happen to the rubber sheet if the balloons were deflated?

(d) Mention the property of air that makes balloons to appear as shown.

45. (a) Mention **one** method of extracting honey from its combs.

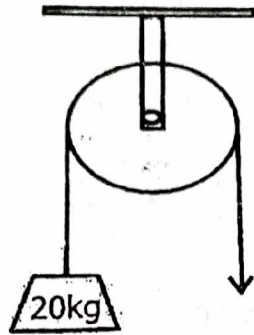
(b) Give **two** reasons why bees swarm.

(i)

(ii)

(c) Why should honey harvesters wear bee veils when harvesting honey?

46. The diagram below shows a pulley system. Study it to answer questions that follow.



- (a) Name the type of pulley system above.

- (b) How does the above pulley system simplify work?

- (c) Mention any **one** force that makes work difficult when using the above pulley system.

- (d) State **one** use of the above pulley system at school.

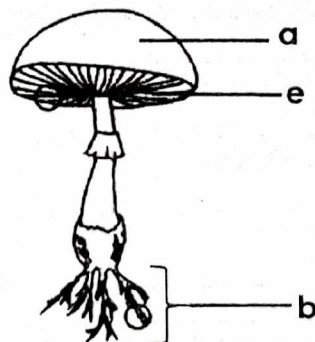
47. (a) What is dehydration?

- (b) Mention **one** solute used in the preparation of ORS.

- (c) Apart from drinking ORS, how else can one prevent dehydration?

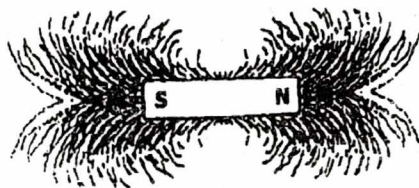
- (d) How can a person preparing ORS prevent it from contamination?

48. (a) Give **two** ways patients misuse drugs.
(i) _____
(ii) _____
- (b) State **two** reasons why mothers are not advised to smoke during pregnancy.
(i) _____
(ii) _____
49. The diagram below is of a mushroom. Study it to answer questions that follow.



- (a) Name parts marked **a** and **b**.
(i) **a** _____
(ii) **b** _____

- (b) Give the function of part **e** to a mushroom.
- (c) How does a mushroom feed?
50. (a) Write PHC in full.
- (b) Which element of PHC is promoted through;
- (i) eating a balanced diet?
- (ii) shaving pubic hair regularly?
- (c) Give **one** principle of PHC.
51. (a) Give the role of the following in a deep litter house.
- (i) Litter
- (ii) Perches
- (b) State **one** advantage of rearing poultry under deep litter system.
- (c) How can egg eating be controlled in a deep litter house?
52. (a) Name **two** methods of making magnets where a permanent magnet is required to magnetize a metal.
- (i)
- (ii)
- (b) Which property of magnets is shown below?



- (c) How does constant hammering of a magnet cause it to lose its magnetism?
53. (a) Identify the type of teeth used for;
- (i) Cutting food
- (ii) Tearing food
- (b) Which mineral salt promotes strong growth of teeth in children?
- (c) Give any **one** method of keeping teeth in a healthy condition.

54. Match the following correctly.

Vaccine	Immunization site
Hep B vaccine	Right upper arm
Measles vaccine	Left upper thigh
BCG vaccine	Mouth
OPV	Left upper arm

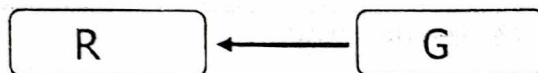
Hep B vaccine _____

Measles vaccine _____

BCG vaccine _____

OPV _____

55. Below is an illustration to show melting where **R** and **G** are states of matter.



(a) Name the state of matter marked with letter **G**.

(b) Give **two** ways melting is important to people.

(i) _____

(ii) _____

(c) Mention **one** other physical change apart from melting.

END