NEXT EXAMINATIONS BOARD

PRE-PLE SET 11 (WOLF)

Final Mark Scored	

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random NO.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instruction carefully:

1. Do not forget to write your **name** and **school 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 **14 printed pages** altogether.
3. Answer **all** the 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 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: 40MARKS

*Each question carries **one mark** each.*

1. Give one way in which animals are useful during the process of photosynthesis.

   .....

   .....

2. State the reason why it is easier to push a wheel barrow downhill than uphill.

   .....

   .....

3. How does the drinking of enough water help to control heartburn?

   .....

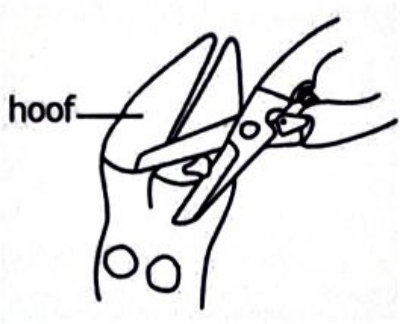
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4. Mention the reason why thw bowl of a flush toilet is made out of clay soil.

   .....

   .....

The diagram below shows a practice carried put on cattle farm. Use it to answer questions **5** and **6**.



5. Identify the practice in cattle shown in the diagram above.

   .....

6. State any one advantage of the above practice in cattle management.

.....

.....

7. Which disease makes a person to pass out blood stained watery stools?

.....

8. State any one reason why a biogas digester should be buried in the ground.

.....

.....

9. Give the difference in movement of hinge joint and ball and socket joint.

.....

.....

10. Give any one way in which the stem supports leaves on a plant.

.....

.....

11. State one advantage of planting crops in rows (lines)

.....

.....

12. Name the part of an irish potato which supplies food to the growing new plant.

.....

13. Why should electric appliances be disconnected from power during repair?

.....

.....

14. State the way through which swamp drainage leads to poor food supply

.....

.....

15. How is a drenching gun useful to a goat farmer?

.....

.....

The diagram below shows a first aid procedure. Use them to answer questions that follow.



16. Identify one health condition which requires the procedure shown in the diagram above.

    .....

17. Give any one reason why the procedure shown above is carried out on a victim.

    .....

    .....

18. What is the importance of applying warm water on the teats and udder of a cow before milking?

    .....

    .....

19. State one advantage of shaking clothes before soaking them during the process of cleaning clothes.

    .....

    .....

20. How does lifting a saucepan of boiling water with a dry piece of cloth helps to prevent burns and scalds in a home?

    .....

    .....

21. State any one way in which syphilis eases the contraction of HIV/AIDS.

.....

.....

22. How do income levels influence the feeding habits of people in the community?

.....

.....

23. State one role the school health club in to control and prevention on ringworm infection among school children.

.....

.....

The diagram below shows a leaf. study and use it to answer question24.



24. From which type of germination do plants with such a leaf venation develop from?

.....

25. Give any one way weeding controls crop diseases.

.....

.....

26. State the reason why a person feels coldness when he stands on a cold floor.

.....

.....

27. Give the way in which the swim bladder keeps the fish buoyant.

.....

.....

28. Mention any one example of a fire extinguishing material.

.....

29. How does wearing a mask when serving food helps to reduce on the risks of food contamination?

.....

.....

30. Name the respiratory diseases whose signs are loss of body weight, chronic dry cough and blood stained sputum.

.....

31. Why is it important to give plenty of fruit juice to a person with high fever?

.....

.....

32. State one way in which the feeding habit of a tick is harmful to people.

.....

.....

33. What is the importance of pressing the bleeding spot on the body in case of a cut?

.....

.....

34. Give one way of keeping rabbits healthy without using chemicals.

.....

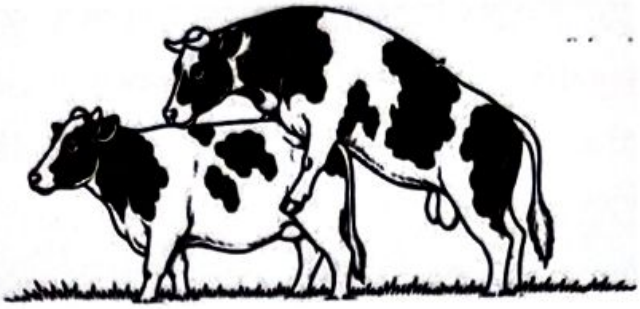
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35. State one way soft boards help to reduce echoes in a cinema hall.

.....

.....

The diagram below shows a method of service in cattle. Study and use it to answer question 36 and 37.



36. Identify the method of service shown in the diagram above.

.....

37. State any one disadvantage of the above method of service to a cow.

.....

.....

38. Name the poisonous gas produced by burning tobacco.

.....

39. Apart from using windmills, mention one other method used to trap and use energy from air.

.....

.....

40. Why are black lids used to cover the faecal vaults of an Ecosan Toilet?

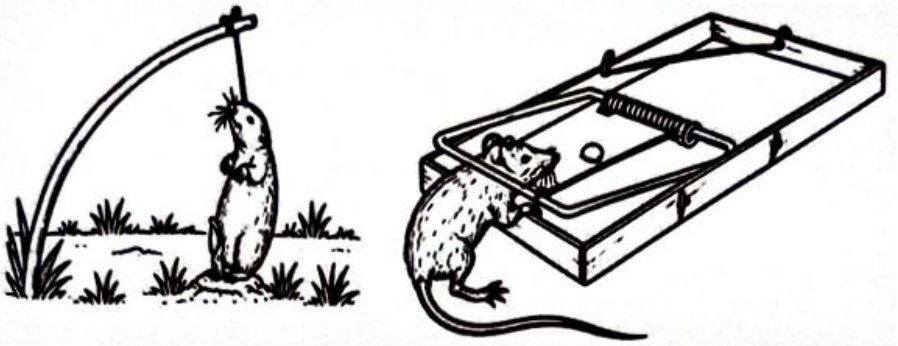
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SECTION B: 60MARKS

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

41. The diagrams below show methods used in the management of pests in the garden. Study and use them to answer questions that follow.



a) Identify the method of managing garden pests shown in the diagrams above.

.....

b) Mention any one pest that can be managed using the method shown in the diagrams above.

.....

c) State any two advantages of using the above method to control garden pests.

(i) .....

.....

(ii).....

.....

42. a) Name the type of germination exhibited by a sprouting bean seed.

.....

b) State the importance of the cotyledon to the germinating maize seed.

.....

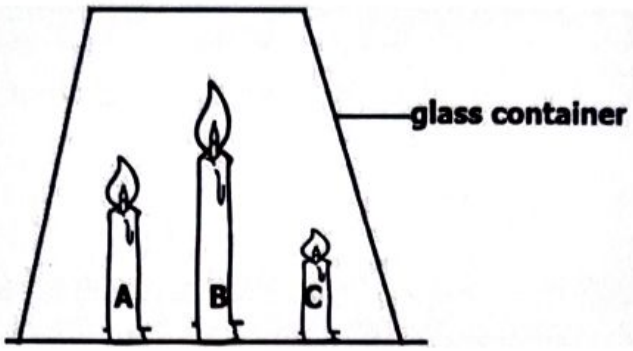
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c) Mention any two physical changes that occur during the germination of a bean seed.

(i) .....

(ii).....

43. Three candles **A**, **B** and **C** are covered in a glass container as shown in the diagram below. Study the diagram and use it to answer questions that follow



a) Which candle will go off first after a while?

.....

b) Give a reason to support your answer in (a) above.

.....

.....

c) State the function of the glass container in the above set-up.

.....

.....

d) Give any one way burning is a useful process in the environment.

.....

.....

44. A survey about vector infestations was conducted in three villages, **Kiti, Arat** and **Kilia**. The table below shows the common vectors in each village. Study and use it to answer questions that follow.

Village	**Kiti**	**Arat**	**Kilia**
Vectors	Houseflies Cockroaches	Mosquitoes	Tsetse flies

a) Identify the village in which human wastes are poorly managed?

.....

b) Mention one sanitation concern in Arat Village.

.....

.....

c) State the disease which is likely to attack people in Kilia village.

.....

d) Give any one way of managing the health issues in the three villages.

.....

.....

45. a) State any one social cause of pregnancies among the teenage girls.

.....

.....

b) Give any one danger of teenage pregnancy to a boy.

.....

.....

c) Mention one way the lack of information about reproductive health has increased the rate of pregnancies among teenagers.

.....

.....

d) Give any one way of caring for the reproductive organs.

.....

.....

46. a) State any one form of environmental degradation.

.....

b) Give any one effect of environmental degradation.

.....

.....

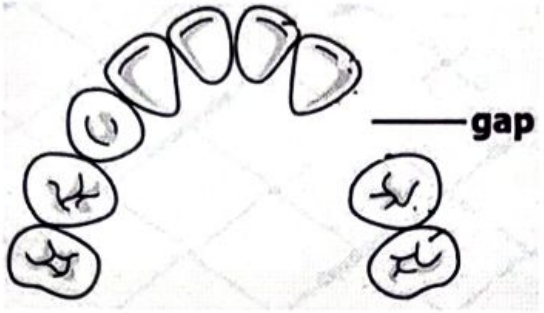
c) Mention any two ways in which the good quality of the environment can be maintained.

(i) .....

(ii).....

.....

47. When **Alice** had a loose tooth, the nurse removed and a gap was left. The diagram below shows the extract of her upper jaw, study and use it to answer questions that follow.



a) Identify the set of teeth Alice possesses.

.....

b) State one adaptation of the tooth missing in the gap above.

.....

.....

c) Explain how the brushing of teeth helps to prevent tooth decay. (**2marks**)

.....

.....

.....

48. When making a nursery bed, **Ojo** heaps black soil mixed with chicken dropping and sand.

a) Give one reason why Ojo;

(i) Mixes sand in the black soil.

.....

(ii) Adds chicken droppings in the soil.

.....

b) State any two methods of pests and diseases control among seedlings in a nursery bed.

(i) .....

(ii).....

49. a) Name the substance that reduces friction between the ribs and the lungs.

.....

c) How are the ribs important in the process of inhalation?

.....

.....

d) State any two good health practices for the respiratory system.

(i) .....

(ii).....

50. In the table below, **A** shows the weather instruments and **B** shows their uses. Match correctly.

A	B
Hygrometer	Speed of wind
Hydrometer	Density of liquids
Barometer	Atmospheric pressure
Anemometer	Depth of rain water in the ground
	Amount of water vapour in the atmosphere

(a) Hygrometer: .....

(b) Hydrometer: .....

(c) Barometer: .....

(d) Anemometer: .....

51. a) Besides drinking plenty of safe water, give any one other way of keeping the excretory system healthy.

.....

.....

b) How does water ease excretion?

.....

.....

c) Name the excretory organ which;

(i) Produces urine: .....

(ii) Removing lactic acid and urea: .....

52. Below is an extract of a record captured on Kapsiro Rabbit Farm. Study and use it to answer questions that follow.

Doe ID	Buck ID	Date Mated	Expected Kindling	Actual Kindling	Kits Born	Live Kits	Remarks
D01	B01	05/08/2026	03/09/2026	04/09/2026	8	7	Good mother
D02	B02	07/08/2026	05/09/2026	05/09/2026	6	6	Good litter
D03	B03	10/08/2026	08/09/2026	08/09/2026	9	9	Excellent
D04	B01	12/08/2026	10/09/2026	—	—	—	Pregnant
D05	B02	15/08/2026	13/09/2026	—	—	—	Pregnant

a) Name the type of farm record shown above.

.....

b) Identify the doe with the oldest kits on the farm.

.....

c) Give any two advantages of such a record above on a rabbit farm.

(i) .....

.....

(ii).....

53. a) Why is AIDS regarded as a blood disease?

.....

.....

b) State any one-way HIV/AIDS is spread.

.....

.....

c) Give one way of increasing the amount of blood circulating in the body.

.....

.....

d) Mention any one effect of HIV/AIDS to the family.

.....

54. a) Mention any one recommended tool for pruning.

.....

b) Give any one part of a plant targeted during pruning.

.....

c) State two ways in which pruning helps to control diseases among crops.

(i) .....

.....

(ii).....

.....

55. a) How is each of the following foodstuffs prepared?

(i) Fish: .....

(ii) Bread: .....

b) Give any two advantages of observing proper food hygiene at school.

(i) .....

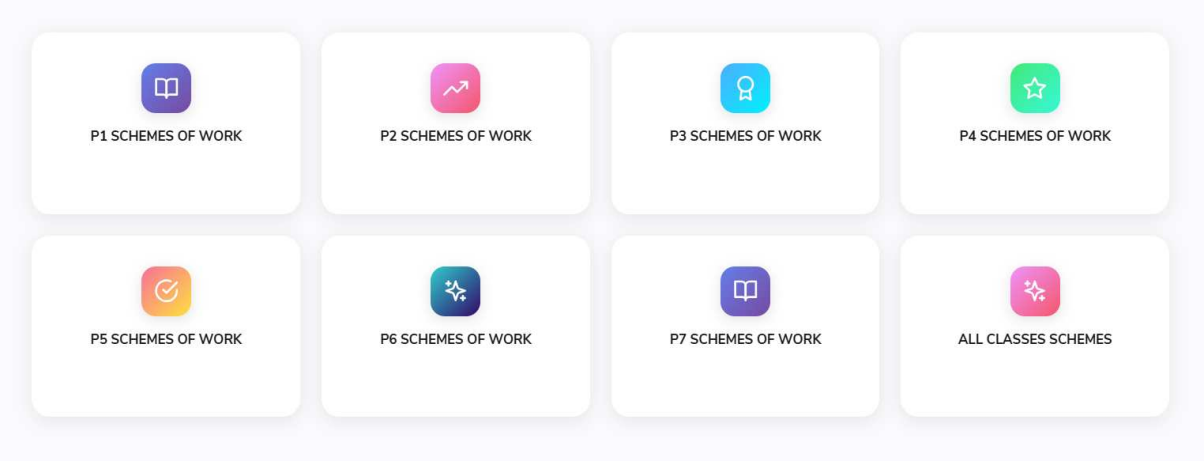
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(ii).....

.....

END

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