NEXT EXAMINATIONS BOARD

PRE-PLE SET 16 (BEAR)

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 **16 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

Answer **all** *questions in this section*

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

1. Name the vector that spreads elephantiasis.

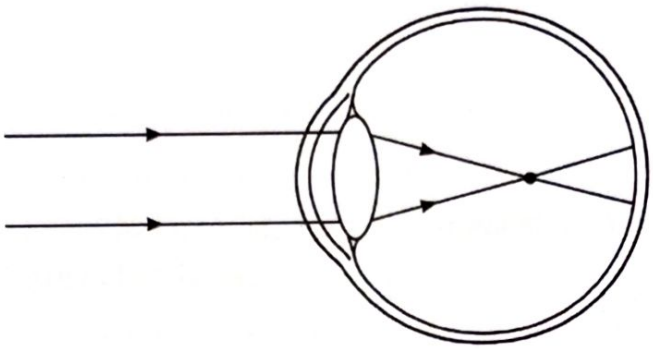
   .....

2. Why should food be chewed well before swallowing it?

   .....

   .....

The diagram below shows an eye defect. Use it to answer questions **3** and **4**.



3. Identify the type of lens used to correct the above eye defect.

   .....

4. Mention any one cause of the eye defect shown in the diagram above.

   .....

5. State one importance of a bandage in promoting first aid.

   .....

   .....

6. Give any one importance of the amniotic fluid during pregnancy.

   .....

   .....

7. Why is a person suffering from dysentery becomes dehydrated?

   .....

   .....

8. Give one reason why it is not advisable to install electricity with bare hands.

.....

.....

9. State one disadvantage of over depending on artificial fertilizers to improve soil fertility.

.....

.....

10. State one reason why mercury is preferred to alcohol to be used in thermometers.

.....

.....

11. Mention any one characteristic which enables some flowers to get pollinated by insects like bees.

.....

.....

12. How can the breeding of mosquitoes be controlled in a home?

.....

.....

13. Which method of harvesting trees is suitable for obtaining wood for electric poles?

.....

14. How sharing drugs prescribed for a certain disease a dangerous practice?

.....

.....

15. Mention any one practice which helps to prevent vectors like flies from breeding in rubbish in a dustbin.

.....

.....

16. Which process in the environment leads to soil formation through breakdown of rocks into small particles?

.....

17. Mention any one factor which favours the breeding and growth of fungi.

.....

18. Why does a person lacking iron in the body develop anaemia after some time?

.....

.....

The diagram shows a device used in fire management. Use it to answer questions **19** and **20**.



19. State the last step of using the above device in fire management.

.....

.....

20. Mention any one way of maintaining the above device.

.....

.....

21. Which poultry disease is characterised by bloody droppings, ruffled feathers and reduced egg production?

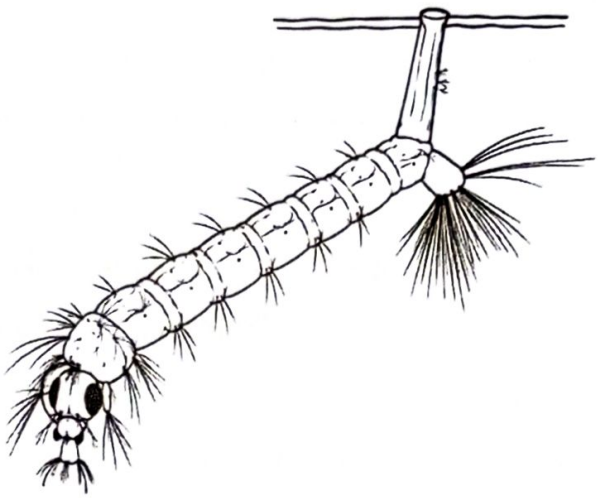
.....

22. Why is it dangerous to leave utensils outside on a rack for a long time?

.....

.....

The diagram below a stage of development in the lifecycle of a mosquito. Use it to answer questions that follow.



23. Identify the type of mosquito to which the above stage belongs.

.....

24. State any one way of controlling mosquitoes at that stage.

.....

.....

25. State any one timely weeding helps to allow proper growth of root crops.

.....

.....

26. Give the meaning of heat period in cattle.

.....

.....

27. How is a single fixed pulley useful at school?

.....

.....

28. State any one-way heat transfer by conduction is applied in hospitals.

.....

.....

29. Which deficiency diseases is caused due to lack of Vitamin B3 in the body?

.....

30. Give any one importance of yeast in baking.

.....

.....

31. How does installing windmills on a raised open place help to increase the amount of electricity generated?

.....

.....

32. Which group of vulnerable people regularly attends antenatal care clinics?

.....

33. Name one fin which enables a fish to swim upwards in water.

.....

34. Give one-way rinsing is an important process in cleaning clothes.

.....

.....

35. State any one way in which friction force is useful to a P.7 candidate.

.....

.....

36. Mention any one sign of food poisoning among people.

.....

37. State any one way adolescents can manage body odour.

.....

38. Name the group of simple machines to which incisor teeth can be grouped.

.....

39. State any one difference between fungi and bacteria.

.....

.....

40. Write one factor that determines a food consumption pattern.

.....

SECTION B

Answer **all** *questions in this section*

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

41. a) Which part of the kidney prevent the body from losing useful materials?

.....

b) Mention any one waste removed from the body by the kidneys.

.....

c) Apart from removing wastes, mention any two other functions of the kidneys in the human body.

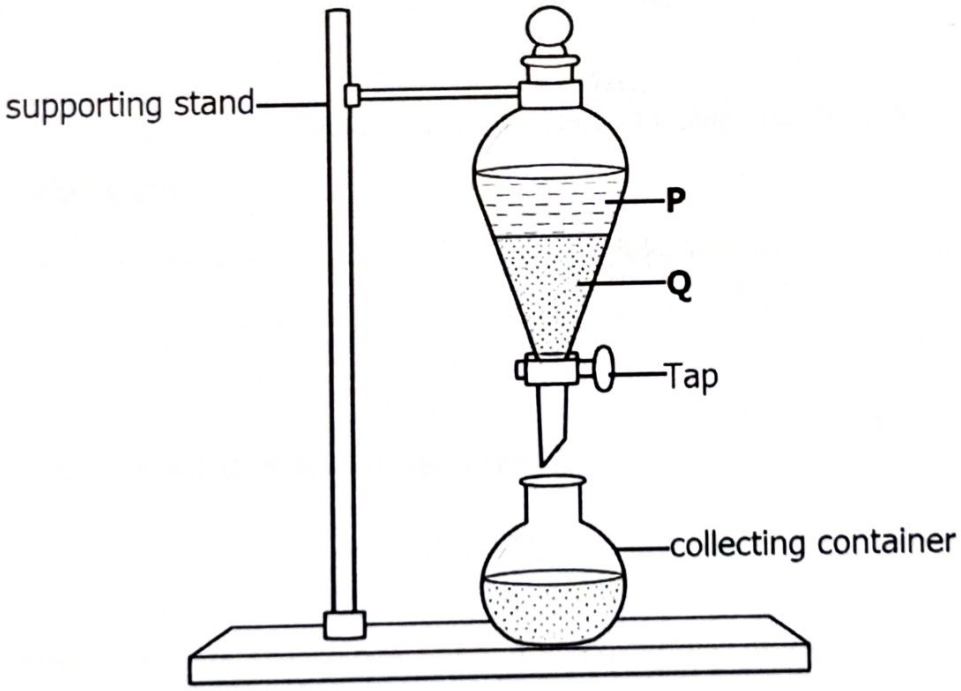
(i) .....

.....

(ii).....

.....

42. Two liquids, **water** and **petrol** got mixed up. The diagram below shows the method of separating them. Study and use it to answer questions that follow.



a) Identify the method used to separate the two liquids.

.....

b) Which liquid was collected in the collecting container?

.....

c) State the reason why liquid **P** settled on top of liquid **Q**.

.....

.....

d) Why did the liquids, **P** and **Q** behave as shown in the diagram above?

.....

.....

43. a) State any two ways a baby boy can be identified from a baby girl at birth.

(i) .....

.....

(ii) .....

.....

b) Mention any one emotional change among adolescents.

.....

.....

c) Give any one-way information about reproductive health is important to adolescents.

.....

.....

44. a) Give the meaning of soil conservation.

.....

.....

b) Mention any one-way soil can be protected from pollution by polythenes and plastic.

.....

.....

c) State any one-way mulching conserves soil.

.....

.....

d) Apart from mulching, mention any one way of conserving soil in the environment.

.....

45. a) Besides a latrine, mention any one other element of a clean home.

.....

b) How does a latrine help to control the spread of diarrhoeal diseases in a home?

.....

.....

c) Why should a site for digging a pit latrine be well drained?

.....

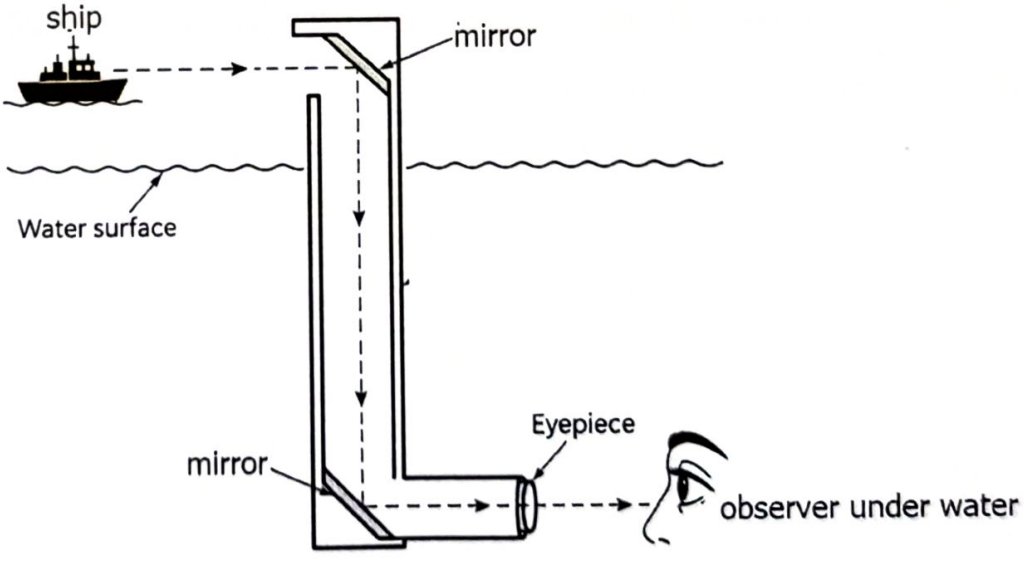
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d) Mention any one way of maintain a pit latrine.

.....

.....

46. The diagram below shows a person under water observing a ship on the water surface using a certain instrument. Study and use it to answer questions that follow.



a) Name the instrument shown in the diagram above.

.....

b) Mention the type of mirrors used in the above instrument.

.....

c) Which principle of light enables the person under water to see the ship on the water surface using the above instrument?

.....

d) State any one other people can use the instrument shown in the diagram above.

.....

.....

47. a) What name is given to the frozen rain from nimbus clouds?

.....

b) State any one danger of the kind of rain named in (a) above.

.....

.....

c) Which type of clouds develop into thunder clouds?

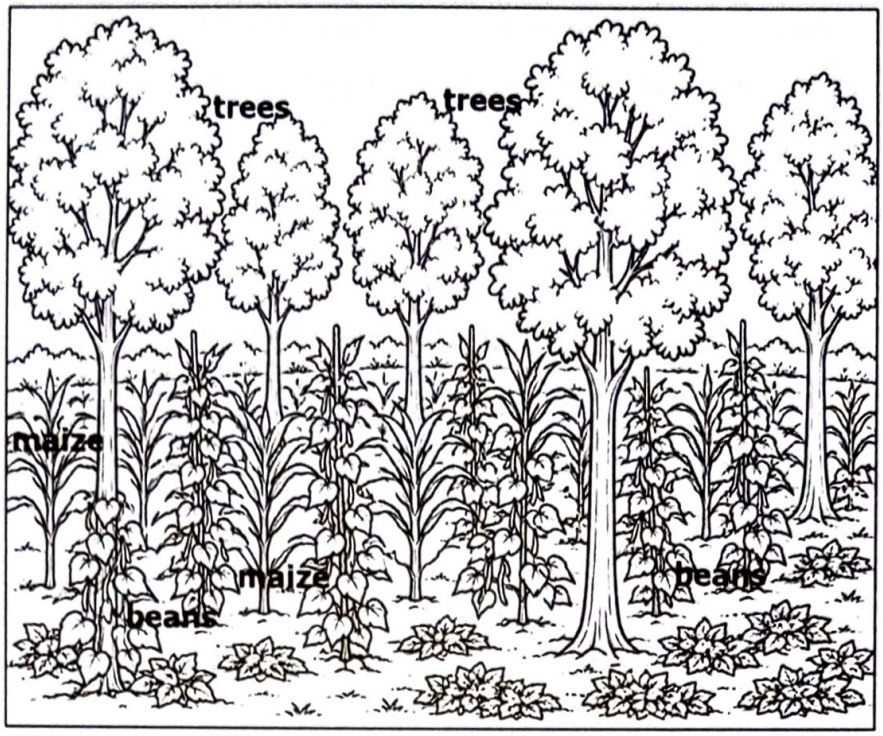
.....

d) State any one-way rainfall promotes proper plant growth.

.....

.....

48. The diagram below shows beans, maize and trees grown together. Study and use it to answer questions that follow.



a) Which practice in agriculture is shown in the diagram above?

.....

b) State the importance of beans in the above practice.

.....

.....

c) Give any one-way maize benefits from trees in the above practice.

.....

.....

d) Write one way a farmer benefits from the above practice.

.....

.....

49. Below is a list animal under four different groups of vertebrates. Study and use it to answer questions that follow.

Ibis, chameleon, Nile perch, toad

a) Name the group of vertebrate to which an ibis belongs.

.....

b) Identify any one animal from the above list which is warm blooded.

.....

c) Mention the group of vertebrates which is not represented in the list above.

.....

d) Apart from being vertebrate, state one other way all the animals in the list are similar.

.....

.....

50. a) Give the meaning of drug misuse.

.....

.....

b) State any one way adolescents abuse drugs.

.....

c) Mention two ways the good behaviour of parents can help their children to avoid drug abuse.

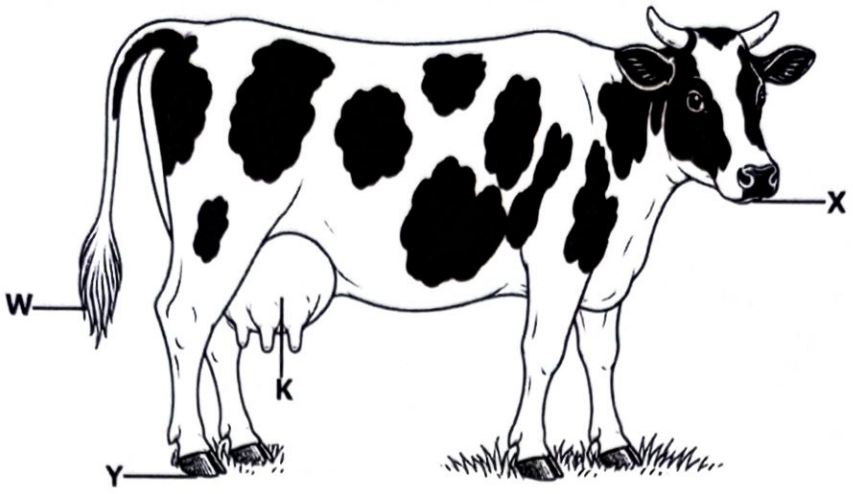
(i) .....

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(ii) .....

.....

51. The diagram below shows a cow. Study and use it to answer questions that follow.



a) Mention one disease that attacks each of the following parts.

b) Part **X**: .....

c) Part **K**: .....

d) State one function of part marked **W** to a cow.

.....

.....

e) Name one practice that promotes the good health of part marked **Y**.

.....

52. Innocent was asked to investigate transpiration in plants. He was provided with the following materials. **Potted plant** and **a string**.

a) Mention one important item missing in Innocent's list.

.....

b) In four sentences, explain how Innocent can use the materials to conduct an experiment to prove transpiration in plants.

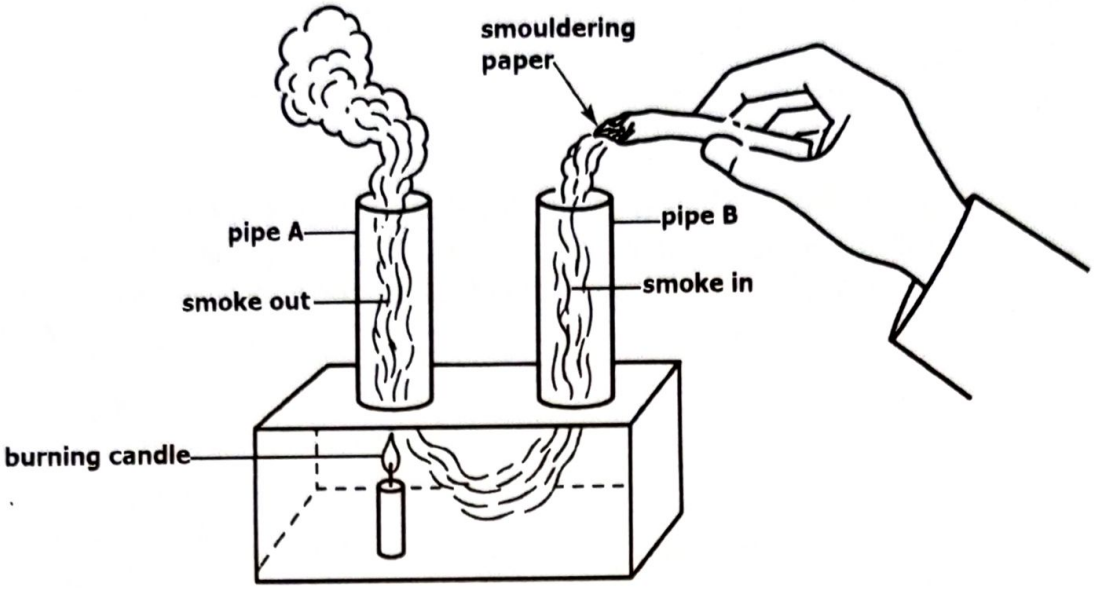
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53. The diagram below shows an experiment conducted to prove convection in gases. Study and use it to answer questions that follow.



a) What is the importance of the smouldering paper in the above experiment?

.....

b) Why was a burning candle placed below pipe A?

.....

.....

c) State any two importance convection in gases in our daily life.

(i) .....

.....

(ii).....

.....

54. a) Write one product from poultry.

.....

c) Mention one activity in poultry which involve the use of heat.

.....

d) State any two physical differences between a hen and a cock.

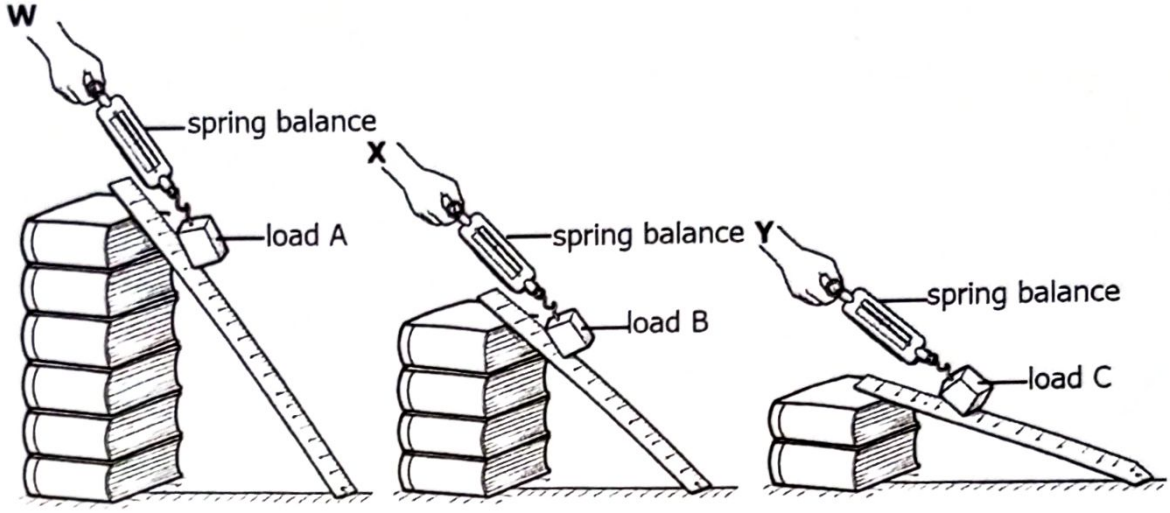
(i) .....

.....

(ii) .....

.....

55. Three pupils **W, X** and **Y**, pulled loads **A, B** and **C** using spring balances respectively along different slopes as shown in the diagrams below. Study the diagrams and use them to answer questions that follow.



a) Identify the pupil whose spring balance which will show the greatest readings.

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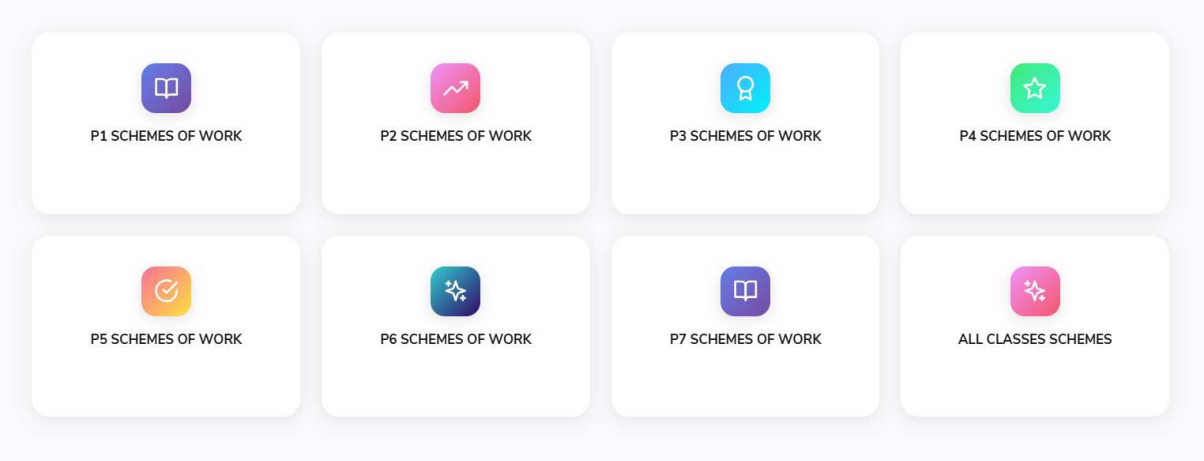
b) Which type of simple machines is used by the three pupils?

.....

c) If all the loads were 400N and the mechanical advantage of slope used by pupil **X** was 8, what will be the reading on spring balance **Y**? (**2marks**)

End

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