VICTORIA JUNIOR SCHOOL

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: 40 MARKS

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

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

1. Name the vector that spreads malaria to human beings.

.....

2. State any **one** reason why a tree branch should be wounded before covering it with fertile soil during marcotting.

.....

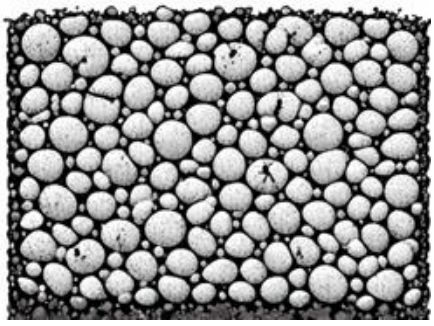
3. Mention the part of the plant that performs the same function as spiracles to an insect.

.....

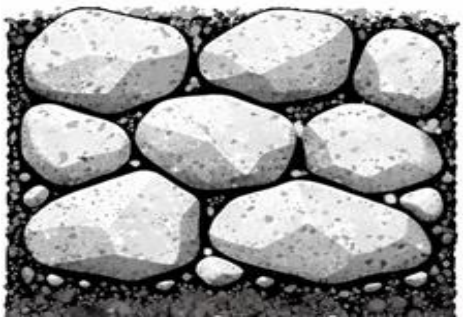
4. Identify the group of vertebrates that breastfeeds its young ones.

.....

The diagram below shows soil samples. Use it to answer questions **5** and **6**.



D



E

5. Give any **one** structural difference between soil samples **D** and **E**.

.....

.....

6. Give any **one** importance of soil sample **E** to people.

.....

7. Give a way in which the eating of fish helps to prevent kwashiorkor among children.

.....

8. Name the movable joint found at the knee.

.....

9. Mention the type of teeth that is absent in the milk set of teeth.

.....

10. State any **one** way in which amphibians promote the health of people.

.....

.....

11. Give the way in which a lateral line of a fish is similar to the human ear in the way they function.

.....



12. Name the biological change in plants that enables people to get food.

.....

13. Identify any **one** example of useful bacteria in the environment.

.....

14. Give the method of rearing birds where birds are kept in a house whose floor is covered by litter.

.....

15. Identify the element of PHC promoted by fencing community water sources.

.....

16. Mention the form of energy that is measured using a clinical thermometer.

.....

17. Give a reason why BCG vaccine is administered to babies at birth.

.....

18. Give the meaning of the term **biological changes**.

.....

.....

19. State the importance of timely weeding to a crop farmer.

.....

The diagram below shows items used to promote personal hygiene. Use them to answer questions **20** and **21**.



X



Y

20. State the importance of using the item **X** during washing clothes.

.....

21. Give **one** way in which item **Y** promotes oral hygiene when used.

.....

22. Identify the human body organ that helps to make urine in the body.

.....

23. Give any **one** correct energy resource obtained from plants.

……

24. Mention any **one** plant process that helps in the formation of rain in the environment.

……

25. Identify any **one** disease that affects domestic fowls.

……

26. Mention any **one** way in which a P.7 child can manage accidents at school.

……

27. Give a reason why a ship floats on water yet it is made of heavy metals.

……

28. Mention any **one** correct exotic breed of goats kept for mohair production.

……

29. State the reason why a sugar cane is not grouped under stem tubers.

……

……..

30. Give the relationship between the duodenum and bile duct during digestion of food.

……

The diagram below shows an equipment used to feed babies. Study and use it to answer questions **31** and **32**.



31. Give any **one** condition that may cause a mother to use the above equipment when feeding her baby.

.....

32. State any **one** importance of feeding the baby using the equipment above to the babies.

.....

33. Give the way in which proper use of toilets helps to prevent the spread of diarrhoeal diseases in the community.

.....

34. Name the product got from bees that promotes the health of people.

.....

35. Give a reason why babies are grouped under vulnerable groups of people.

.....

36. State any **one** item used to maintain sanitation at home.

.....

37. Name any **one** product got from goats that is a source of proteins to human beings.

.....

38. Mention any **one** example of exotic breed of chicken kept for meat production.

.....

39. Identify any **one** disease spread due to poor disposal of human wastes.

.....

40. Name the germ that causes cholera to people.

.....

SECTION B: 60 MARKS

Questions 41 to 55 carry one mark each

41. (a) Give the meaning of the term **mulching**.

.....

.....

(b) State the correct way in which mulching does the following in the garden:

(i) conserves moisture in the soil.

.....

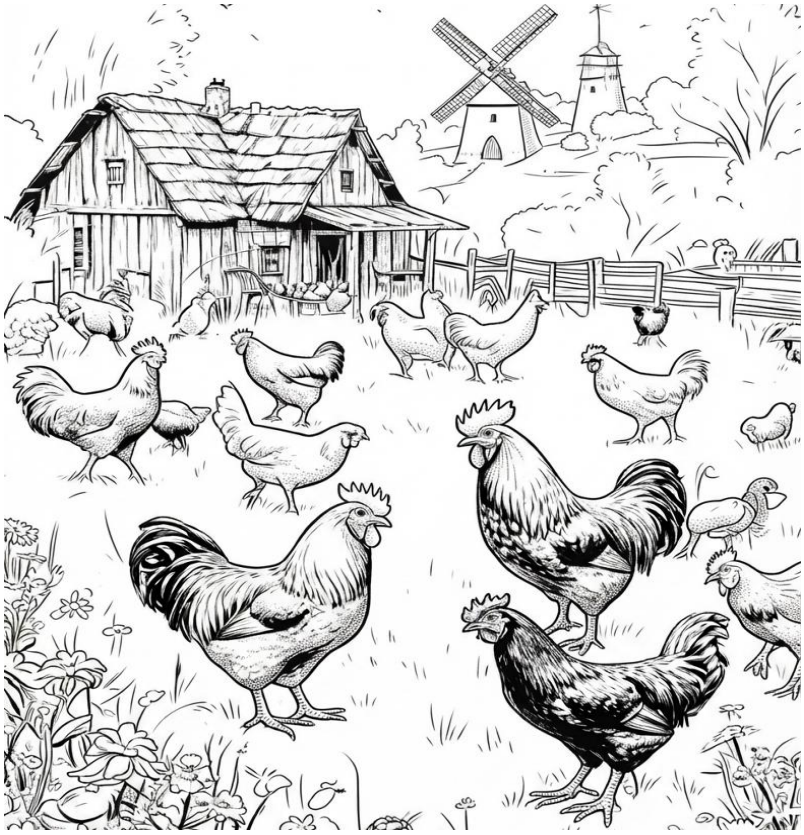
(ii) improves soil fertility.

.....

(d) Apart from improving soil fertility, mention any **one** other way in which mulching is an important crop growing practice.

.....

42. The diagram below shows a method of keeping poultry. Use it to answer questions that follow.



(a) Identify the method of keeping poultry shown above.

.....

(b) State any **two** advantages of using the method of keeping poultry above to the farmers.

(i) .....

(ii) .....

(c) Give the reason why the method shown above is commonly practiced in rural areas.

.....

.....

43. Kalibbala touched a naked live wire with bare hands.

(a) Name the accident Kalibbala got.

……

(b) Mention any **two** ways in which Kalibbala can protect himself from such accidents.

(i) ……..

(ii) ……..

(c) Give any **one** protective equipment used by electricians to protect themselves from the accident given in (a) above.

……

44. (a) Name the type of blood vessels that;

(i) Carry blood towards the heart:

……

(ii) Carry blood away from the heart:

……

(b) State any **one** functional difference between the pulmonary vein and the pulmonary artery.

……

……

(c) Give the feature in the veins that prevents the back-flow of blood.

……

45. The diagram below shows an intestinal worm. Study and use it to answer questions that follow.



(a) Name the intestinal worm shown above.

……

(b) Give the importance of the parts of the intestinal worm marked;

(i) **X**:……

(ii) **W**: ……

(c) Give any **one** effect of the above to a **5** years old child.

……

46. (a) Mention the term used to mean space occupied by an object.

……

(b) If the state occupied by an object is 40cc and it's amount of matter per cubic unit is 2g/cc. find the amount of matter contained in the object. (**02marks**)

(d) Give any **one** example of objects whose density is lower than that of water.

……

47. (a) Mention any **one** vaccine administered to babies at birth.

……

(b) State any **two** ways of administering vaccines into the body.

(i) ……..

(ii) ……..

(c) Give the type of immunity babies get from the introduction of vaccines into their bodies.

……

48. (a) State the way in which sound travels from one place to another.

……

(b) Mention the state of matter in which sound travel;

Fastest: ……..

(c) Explain as to why sound is unable to travel through vacuum.
(**02 marks**)

……

……..

……..

……..

……..

49. The following are the steps of making an electromagnet in a wrong order.

(i) Connect the wire to dry cells.

(ii) The soft iron gains magnetism as current passes through the coil.

(iii) Wind a coil of wire around the soft iron.

(iv) Complete the circuit to make current pass through the coil.

Rearrange them to the correct order.

(i) .....

.....

(ii) .....

.....

(iii) .....

.....

(iv) .....

.....

50. (a) Mention any **one** place in the alimentary canal of human beings where mechanical digestion takes place.

.....

(b) Name the digestive juice produced by;

(i) Pancreas: .....

(ii) Liver: .....

(c) State where digestion of proteins begins in the human alimentary Canal.

……

51. (a) Name the thermometer that is used to measure the body temperature of a human being.

……

(b) Give the reason why doctors do the following to the thermometer mentioned in (a) above.

(i) Dip in spirit:

……

(ii) Shake it before using it to the next patient:

……

(d) Name the thermionic fluid used in the type of thermometer mentioned in (a) above.

……

52. Give any **two** examples of the following groups of common tubers;

(a) Root tubers

(i) ……

(ii) ……

(b) Stem tubers

(i) ……

(ii) ……

53. The table below shows groups of arthropods, their characteristics and examples. Complete it correctly.

Group	**Characteristic**	**Example**
.....	Three pairs of jointed legs	Housefly
Arachnids	.....	Spider
.....	Many jointed legs and segmented bodies	Millipede
Crustaceans	Many jointed legs and hard crusty skin	.....

54. (a) State any **two** ways of making water safe for drinking.

(i) .....

(ii) .....

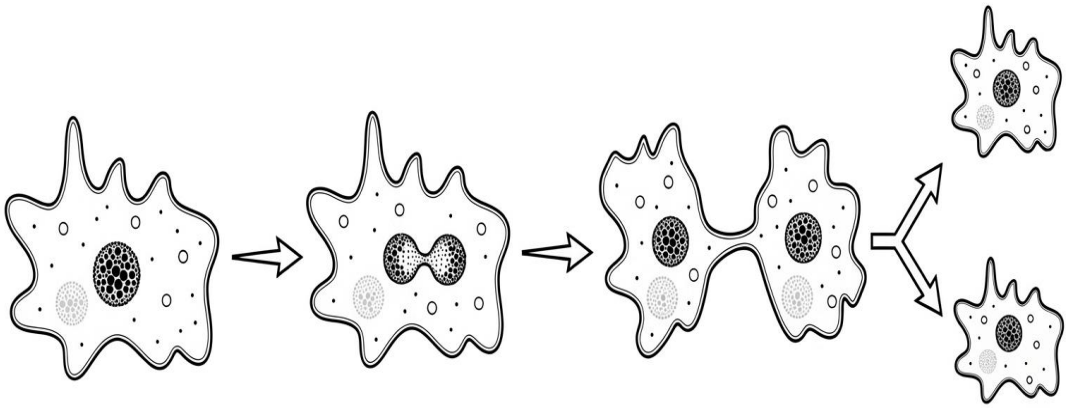
(b) Give any **one** disease that can result from drinking unsafe water.

.....

(c) Mention any **one** way in which clean water got by decantation can be used at home.

.....

55. The diagram below shows a mode of reproduction in a certain organism. Study and use it to answer questions that follow.



(a) Identify the organism that reproduces in the way shown above.

……

(b) Mention any **two** ways in which the organism mention in (a) above is useful to human beings.

(i) ……..

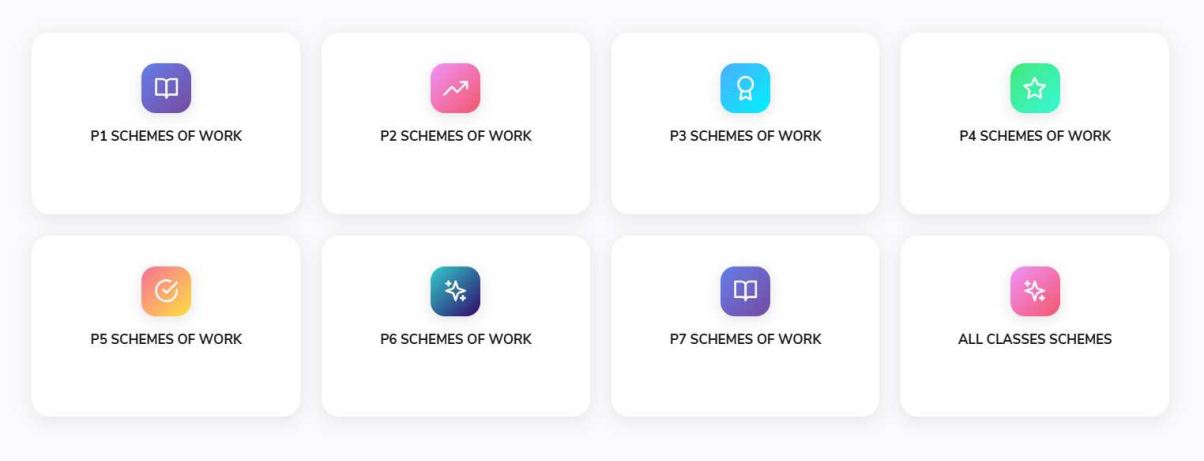
(ii) ……..

(c) Give any **one** danger of the organism given in (a) above to humans.

……

THE END

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