

JACARANDAS EXAMINATION BOARD

PRIMARY SEVEN PLE PREPARATION 1

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**. This paper has **12 pages** printed altogether.
3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil will **NOT** be marked except drawings and diagram.
5. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill anything in the table indicated "**For examiners' use only**" and the 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		

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Turn Over



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SECTION A: 40 MARKS

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

1- Name any one resource obtained from water bodies.

2- Apart from crop growing, give any other way people benefit from soil.

3- Which layer of soil is highly affected by leaching of mineral salts?

4- In which one way is friction useful to a primary seven candidate?

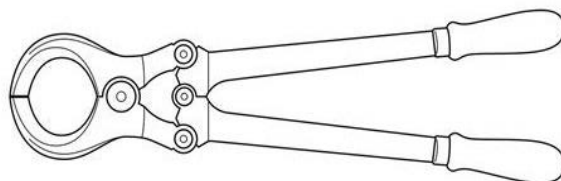
5- What is mulching?

6- Mention any one crop grown as cover crops in mixed cropping.

7- How do birds reproduce?

8- What type of skeleton do earthworms have?

Use the diagram of a farm tool below to answer question 9.



9- State the use of the garden tool above to a cattle farmer.

10- Give any one type of manure.

11- Which fungal disease is caused by poor personal hygiene?



12- What is the largest sense organ?

13- Mention the disease caused due to lack of vitamin B₁ in the diet.

14- How does a sweater keep our bodies warm during cold weather?

15- What is light energy?

16- Why is light regarded as a form of energy?

17- How do we call the production of light by living things?

18- Which type of lens is used to correct short sightedness?

19- How can a mixture of cooking oil and water be separated?

20- What is a magnet?



21- Which injury is caused by a dry solid hot object?

22- What is matter?

23- What do earthworms use for breathing?

24- Give one way in which transpiration is different from sweating.

25- Name the substance that can exist in all the three states of matter.

26- Which method of harvesting trees makes it easier to harvest fruits?

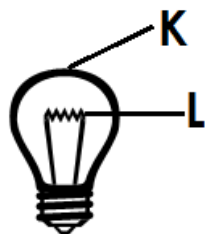
27- Cite one property of air.

28- Why are doors and windows put below the ventilators on a house?

29- State any one difference between fresh air and stale air.

30- How is a cork able to prevent heat loss by conduction?

Use the diagram below to answer questions 31 and 32.



31- Why is part **L** coiled?

32- What is the use of the gas enclosed in part marked with letter **K**?

33- Resty was sick of diarrhoea last month. Which mineral salt did she lose?

34- What is incubation?

35- How is temperature different from humidity?

36- How can Resty as a farmer care for her broody hen?

37- What are vermin as used in poultry?

38- Why is saw dust not recommended to be used as litter?

39- What is health?

40- What scientific name is given to materials used to make biogas?

SECTION B: 60 MARKS



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

41- The diagram below shows a method of incubation, use it to answer the questions that follow.



a) Name the type of incubation shown in the diagram above.

b) State any two advantages of the above type of incubation.

i) _____

ii) _____

c) Give any one disadvantage of the type of incubation above.

42- Name any **two** things that are not regarded as matter.

(i) _____

(ii) _____

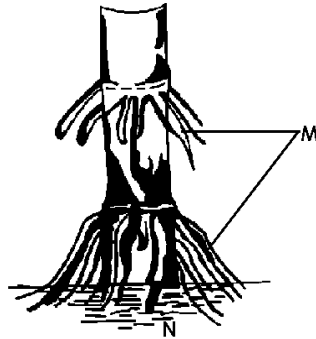
(b) Why do liquids flow?

(c) What are viscous liquids?

43- How do the following protect themselves against enemies?

- (a) Caterpillars _____
- (b) Porcupines _____
- (c) Snakes _____
- (d) Chameleons _____

44. Use the diagram below to answer questions that follow.



(a) Name the roots marked M.

(b) Name the plants with roots marked M.

- (i) _____
- (ii) _____

(c) How useful are roots marked M to the above plant?

45- (a) What enables charcoal stoves and iron boxes to continue burning?

(b) How has the government helped to reduce deforestation?

(c) How is charcoal formed?

(d) Apart from deforestation, how else does charcoal burning affect the environment?

46- (a) Mention any one thing that happens to food while in the crop of a bird.

(b) Name any two birds that do not have a crop.

(i) _____

(ii) _____

(c) Why do some birds have no crop in their alimentary canal?

(a) Mention any one example of each of the following.



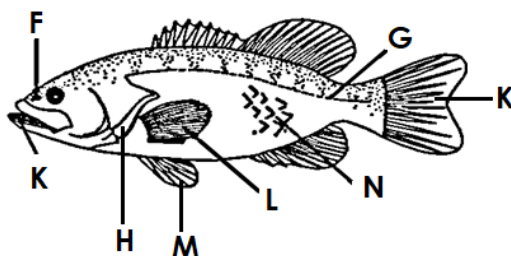
i) Chemical change _____

ii) Biological change _____

(b) State the major similarity between a chemical and a biological change.

(c) What is the importance of sublimation to the environment?

47- Use the diagram below to answer questions that follow.



(a) Which organ of a fish is protected by part H?

(b) Name the parts marked?

i) **L** _____

ii) **M** _____

(c) How are fish adapted to living in water?

48- Which part of the following crops can be used for making alcohol?

(i) Cassava _____

(ii) Millet _____

(b) Name the fungus which is used in the production of alcohol.

(c) Write down any one type of alcohol.

49- (a) Give any **one** factor that can affect the pitch of sound.

(b) State any **one** reason why sound waves do not travel in a vacuum.

(c) Cite the difference between pitch and volume of sound.

(d) Name any **one** method of storing sound.

50- (a) Write **PIASCY** in full.

(b) State any **two PIASCY** messages that can be used to fight **HIV/AIDS**.

i) _____

ii) _____

(c) In which **one** way are **PIASCY** messages important to adolescents?

51- (a) Name the thermometer used to measure the highest and lowest temperature of the day.

(b) Give **one** reason why the following liquids are used in the thermometer named above.

i) Alcohol _____

ii) Mercury _____

(c) In which units is temperature measured?

52- (a) How is royal jelly useful in the beehive?

(b) Which type of bees produce royal jelly?

(c) Name any **two** products obtained from bees.

i) _____

ii) _____

53- (a) What is refraction of light?

(b) What causes the change in speed of light as it passes through different media?

(c) State any two effects of light refraction in the environment.

i) _____

ii) _____

54- Give the meaning of the following terms.

(a) Drug dependence

(b) Drug abuse

(c) Drug prescription

(d) Give **one** example of a drug of dependence.

