



INTEGRATED SCIENCE

Time allowed: 2hours 15 minutes

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

District ID No.

--	--	--	--

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 **11 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		
<b>TOTAL</b>		

## SECTION A: 40 MARKS

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

1- Why should a nursery bed be raised?

---

2- How is a vent pipe important on a VIP latrine?

---

3- What causes marasmus?

---

4- Name the sexually transmitted disease which destroys the white blood cells.

---

5- What is soil erosion?

---

---

6- How are the villi adapted to their function?

---

7- To which type of change does ripening of fruits belong?

---

8- Mention the energy resource from water.

---

9- What are immiscible liquids?

---

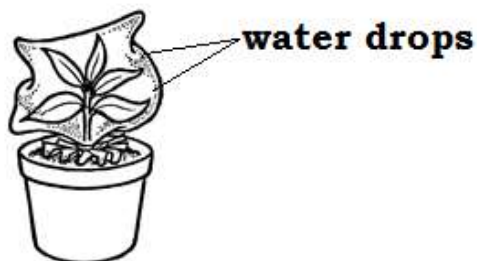
10- Name the process that helps in the formation of urine.

---

11- How is iodine important in the body?

---

**Study the diagram below and answer questions 12 and 13**



12- Name the plant process illustrated above.

13- Give the importance of the above process to the environment.

14- Name any one body organ protected by the ribcage.

15- Which sexually transmitted disease causes madness at its late stage if not treated?

16- Where does fertilization take place in humans?

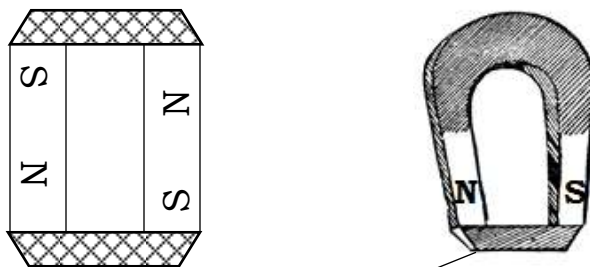
17- In which state of matter is water at  $0^{\circ}\text{C}$ ?

18- Briefly explain **deamination**.

19- How do deciduous plants breathe during dry season?

20- Why are vitamins important in one's diet?

**An illustration showing magnets in iron keepers use it to answer questions 21 and 22.**



Iron keepers

21- How do iron keepers prevent magnets from losing their magnetism?

22- State the law of magnetism.

23- Name one condition that can lead to bottle feeding.

24- How does heat travel through iron bars?

25- How does mulching improve soil fertility?

26- Mention any one effect of early pregnancy.

27- What type of immunity do people get after immunization?

28- By what process does food move along the alimentary canal?

29- Write **ECOSAN** in full.

30- Name any one factor that affects the speed of sound.

**The diagram below shows an instrument used in a cattle farm when milking. Study it carefully to answer question 31 and 32.**



31- Name the instrument shown above.

32- Which cattle disease is detected using the above instrument?

33- Why is a person with hook worms most likely to suffer from anemia?

34- Which type of teeth is not common in young children?

35- What is leaf venation?

36- In which units is power measured?

37- To which group of arthropods does a millipede belong?

38- Mention the vaccine given orally apart from polio vaccine.

39- How is a rainbow formed?

40- Convert  $35^{\circ}\text{C}$  to  $^{\circ}\text{F}$

**SECTION B:60 MARKS**

41- (a)What is a **resource**?

(b) Mention any one example of renewable resource.

(c)Why is the above resource in (b)above regarded as a renewable resource?

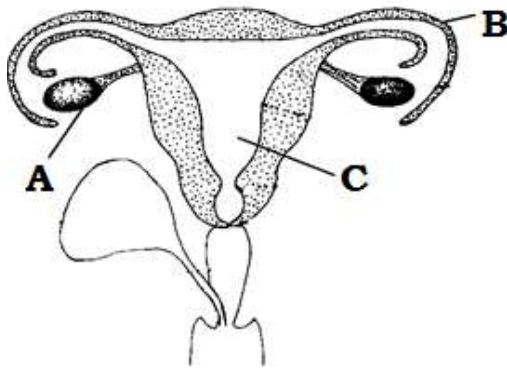
(d) How can renewable resources be conserved?

42- (a) Which digestive juice is produced by the stomach walls?

(b) Write the class of food which is digested in the stomach.

(c) Name the part of the digestive system where the absorption of digested food takes place.

(d) Give any one disorder of the digestive system.



**43- The diagram below is of the reproductive system of a woman.**

(a) Name the parts marked by letter A and

C

A \_\_\_\_\_

C \_\_\_\_\_

(b) Give the function of part marked B

(c) Identify any one sexually transmitted disease that attacks the system above?

44- (a) What is a **machine**?

(b) State any two advantages of using machines.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) When is work done?

45- (a)What are root tubers?

(b)Mention any two examples of root tubers.

(i)\_\_\_\_\_

(ii)\_\_\_\_\_

(c)What food value do we get from eating the above root tubers?

46- (a)Name two examples of poultry.

(i)\_\_\_\_\_

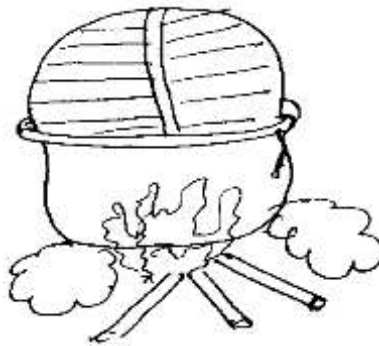
(ii)\_\_\_\_\_

(b)Mention any two ways in which you can care for poultry.

(i)\_\_\_\_\_

(ii)\_\_\_\_\_

**47- The diagram below shows food being cooked. Use it to answer the questions that follow.**



(a)What is the importance of covering food with banana leaves when cooking?

\_\_\_\_\_

(b)State one disadvantage of preparing food when it is not covered.

\_\_\_\_\_

(c) Name the form of heat transfer that helps in the cooking of food.

\_\_\_\_\_

(d)Why is it advisable to use insulators to lift a hot source pan from fire?

\_\_\_\_\_

48- Daniel left a nail outside for a night. He found it when it has brown powder on the nail.

(a) What do we call the brown powder on the nail?

---

(b) Name the process led to the formation of the brown powder on the nail.

---

(c) Give one way how the above process affect tools.

---

(d) State one way how the process can be prevented in metals.

---

49- (a) What is air?

---

(b) Give the component of air that makes the soil fertile.

---

(c) How is burning similar to rusting?

---

(d) Name the instrument used to put out fire.

---

50- The table below shows organisms in our environment. Study it carefully and answer the questions that follow.

A	B	C	D
Ferns	Conifers	Moss	Toad stools

(a) Give any one common similarity among the organisms A , B and C

---

(b) How are organisms B different from the rest of the organisms in terms of reproduction?

---

(c) Why is organisms in D unable to make its own food?



---

(d) Give one economic importance of organisms in B to people.

---

51- (a) Give the meaning of an echo as used in sound.

---

(b) Mention the importance of echo to man.

---

(c) Identify one way of controlling echoes.

---

(d) How do musicians change the pitch of sound in a guitar?

---

52- (a) What is swarming as it is used in bee keeping?

---

(b) Give two causes of swarming in honey bees.

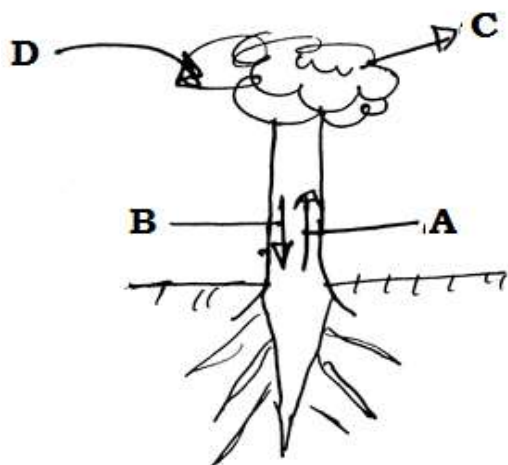
(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Which type of bees makes a buzzing sound when flying?

---

**53- Study the diagram below and answer questions that follow.**



(a) Name the gas shown by each of the arrows D and C above.

D \_\_\_\_\_

C \_\_\_\_\_

(b) Name the process marked by each of the arrows B and A above.

A \_\_\_\_\_ B \_\_\_\_\_

54- (a) Give any two examples of commonly abused drugs.

(i) \_\_\_\_\_ (ii) \_\_\_\_\_

(b) State any one danger of drug abuse to an individual.

\_\_\_\_\_  
(c) Mention any one reason why people smoke.

\_\_\_\_\_  
55- (a) What are **natural changes**?

\_\_\_\_\_  
(b) Give any two examples of natural changes.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Mention one effect of natural changes to the environment.

\_\_\_\_\_  
**GOOD LUCK**