



SURREKEY EXAMINATIONS BOARD
PRIMARY LEAVING MOCK EXAMINATION
2022

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

District Name:

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **15** printed pages.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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

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

1. What gas occupies the greatest percentage in the atmosphere?

.....

2. Which disease is spread by fresh water snails to people?

.....

3. How is a dustbin useful in the classroom?

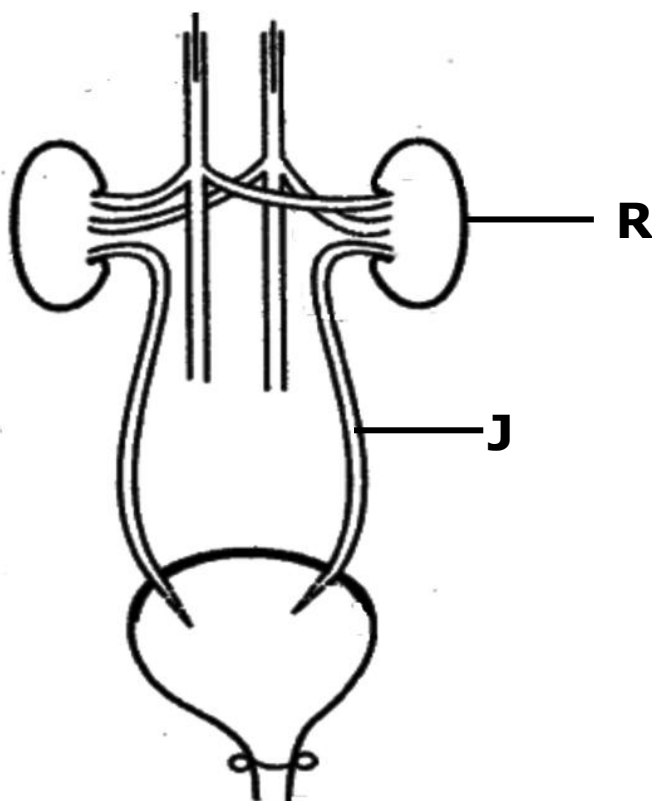
.....

.....

4. Give any **one** example of a non renewable energy resource in the environment.

.....

The diagram below is of the human urinary system. Study and use it to answer questions **5** and **6**.



5. Name the part marked **J**.

.....

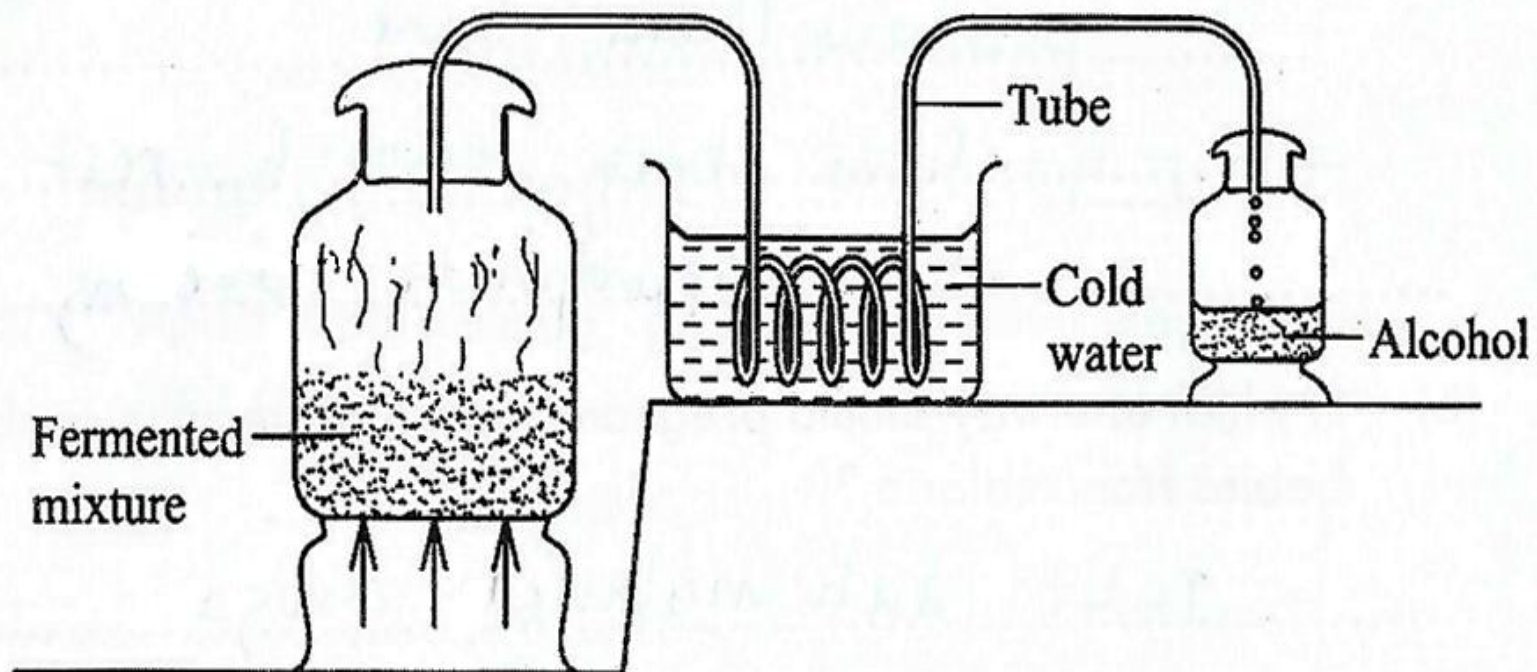
6. State the function of part marked **R**.

.....

7. Which group of birds help to clean the environment?
.....
8. Mention any **one** breed of sheep that is kept for wool production.
.....
9. What type of eclipse occurs when the moon comes between the sun and the earth?
.....
10. State any **one** way in which earthworms are important in the soil.
.....
11. How are red blood cells useful in the process of blood circulation?
.....
.....
12. Name the component of the environment that provides oxygen to people.
.....
13. State any **one** characteristic of the ileum which makes it suitable for its function.
.....
14. How best can a primary seven candidate protect him/herself from contracting Sexually Transmitted Diseases?
.....
15. Which communicable intestinal disease is characterized by blood stains in faeces?
.....



The diagram below shows a method of making alcohol. Use it to answer questions **16** and **17**.



16. Name the method of making alcohol shown in the diagram above.

.....

17. Why is the tube passed through cold water?

.....

.....

18. In which way does the sun help in controlling deficiency diseases in human beings?

.....

19. Give any **one** way in which you can use craft materials at home.

.....

20. Why are plants called producers in a food chain?

.....



21. State any **one** characteristic of wind pollinated flowers.

.....

22. State the difference in function between a tendon and a ligament.

.....

.....

23. Give any **one** way in which regular bathing is important to the human body.

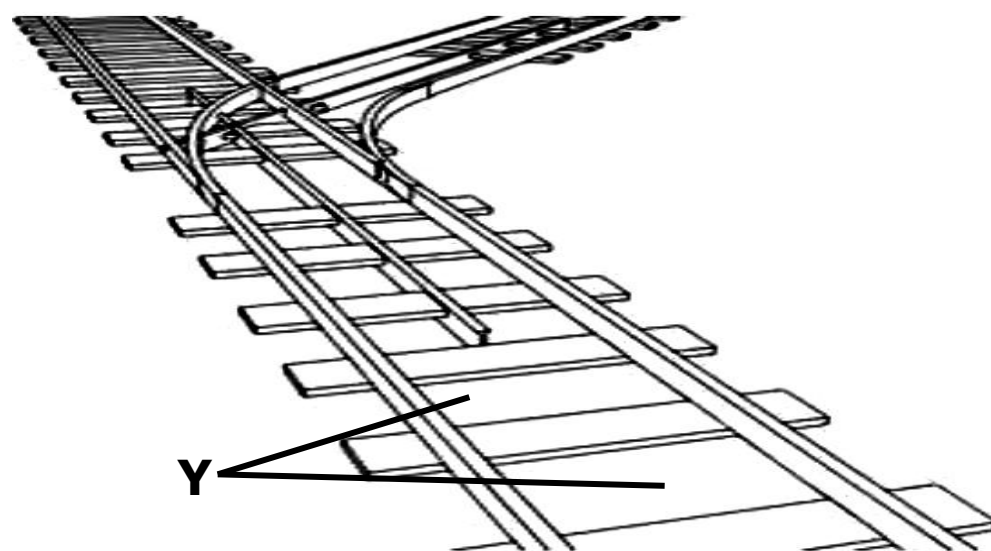
.....

24. How is the mode of reproduction in yeast different from that of mushrooms?

.....

.....

The diagram below shows railway lines. Study and use it to answer questions **25** and **26**.



25. Why are gaps marked **Y** left between the rails during the construction?

.....

.....

26. State what would happen if the gaps marked **Y** were not left between the rails during construction.

.....

27. What is the use of a barometer at the weather station?

.....

28. How is a tourniquet useful when giving first aid?

.....

29. State the importance of root hairs to a bean plant.

.....

30. Name the non contagious disease that attacks the eye.

.....



31. Apart from layers, mention any **one** other class of chicken kept for a specific purpose.

.....

32. State any **one** sign of ear canker in rabbits.

.....

33. Give any **one** factor which determines the strength of the magnet made by electrical method.

.....

34. Why do some objects weight less in water than in air?

.....

35. State any **one** condition which is favourable for a metallic object to rust.

.....

36. Name the garden tool used for harvesting cereal crops

.....

37. Why is it important to fill the vacuum flask with the liquid up to the cork?
.....
38. State any **one** way of preventing antisocial behavior among school children.
.....
39. Apart from carrots, name any **one** other root crop that is propagated by planting seeds.
.....
40. Why is it not advisable to pour chemicals like acid in pit latrines?
.....
-

SECTION B: 60 MARKS

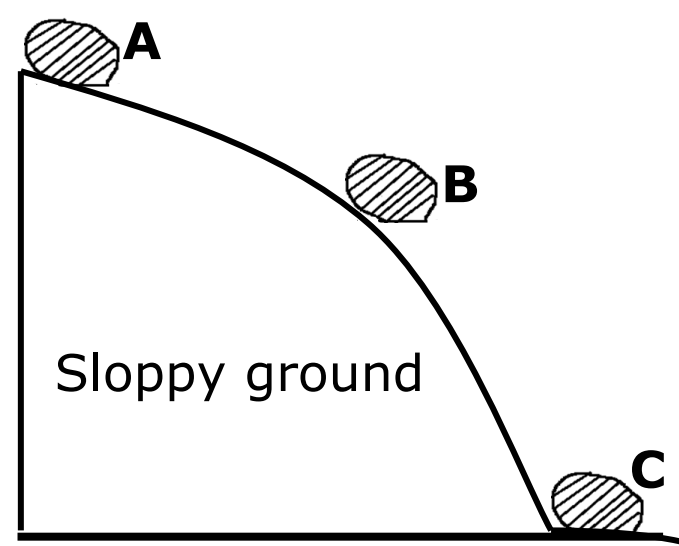
Questions **41** to **55** carry four marks each.

41. a) Name the type of accident that involves the following applications when giving first aid.
- (i) tying splints around the broken part.
.....

(ii) dipping the injured part in clean cold water
.....
- b) State any **two** reasons why casualties should be given first aid.
- (i)

(ii)

42. The diagram below shows forms of mechanical energy possessed by a stone on a sloppy ground. Study and use it to answer the questions that follow.



- a) What type of mechanical energy is possessed by the stone at **B**?
.....
- b) Why does the stone at **B** possess the type of energy named in (a) above?
.....
- c) State any **one** energy change that occurs to the stone at **C**.
.....
- d) Mention any **one** form of energy that is produced by the stone when it reaches point **C**.
.....

43. a) Write down any **two** reasons why animals produce sound.
- (i)
 - (ii)

- b) Give any **two** factors that affect the pitch of sound produced by an object.
- (i)
- (ii)



44. In the table below, Part **A** shows parts of the respiratory system and part **B** has the actions of the parts during breathing in.

Part A	Part B
Ribcage	Its volume increases
Lungs	It moves downwards and flattens
Diaphragm	They expand
Chest cavity	It move upwards and downwards

Use the actions in Part **B** of the table to match the parts below.

- (a) Ribcage
- (b) Lungs
- (c) Diaphragm
- (d) Chest cavity

45. a) Mention any **two** activities carried out during health parades.

(i)

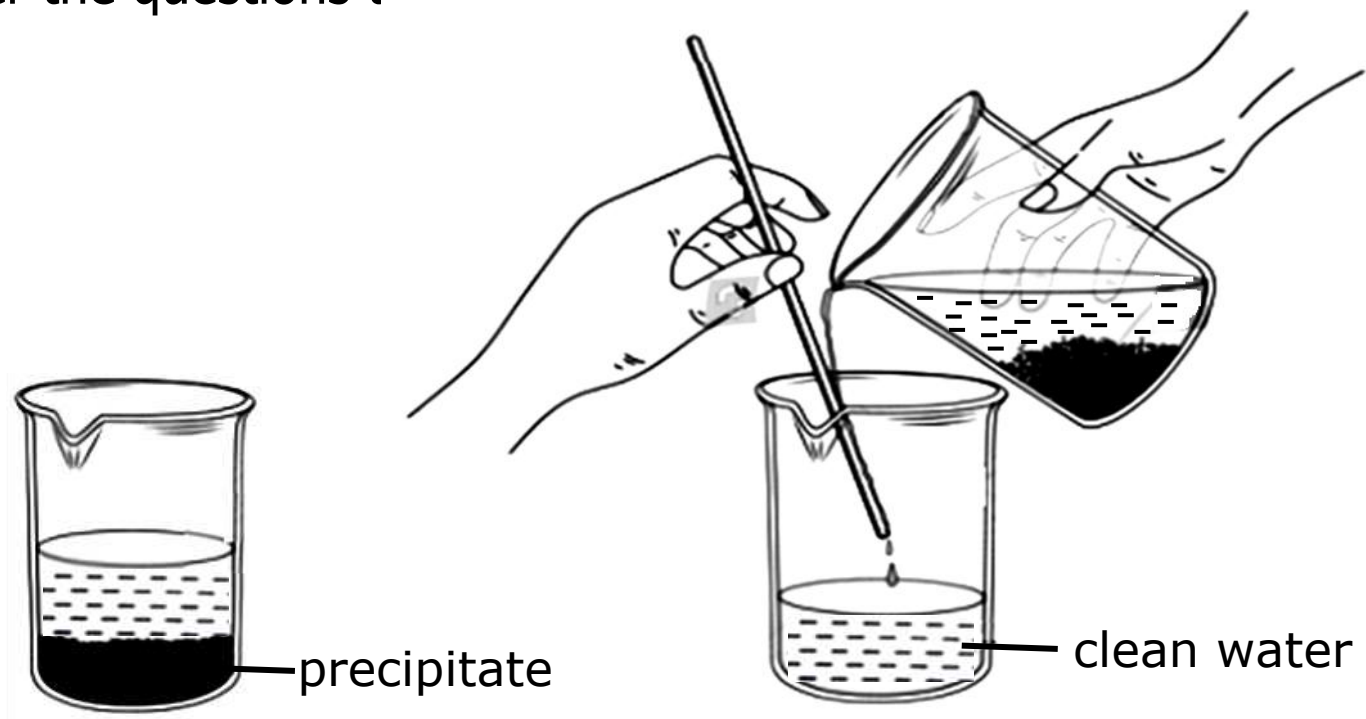
(ii)

- b) In which **two** ways are regular health parades important to school children?
- (iii)
-

46. a) Write down any **two** characteristics of fish.
- (i)
- (ii)
- b) State any **one** function of each of the following parts to a fish
- (i) Swim bladder
- c)
- (ii) Lateral line
-



47. The diagram below shows a method of making water clean. Study and use it to answer the questions that follow.



- a) Name the method of obtaining clean water shown above.
-
- b) Why is clean water obtained by the above water not good for drinking?
-

c) Give any **two** activities at home where the above clean water can be used.

(i)

(ii)

48. a) Give any **two** methods of preserving hides from cattle.

(i)

(ii)

b) Mention any **one** product obtained from cattle hides.

.....

c) State any **one** reason why some farmers would prefer rearing local breeds to exotic breeds of cattle.

.....

49. a) Write down any **one** activity done by the young farmers clubs in a school.

.....

b) State any **two** ways in which young farmers clubs are important in a school.

(i)

(ii)

c) Apart from young farmers clubs, name any **one** other science oriented club in schools.

.....



50. a) Which structure on a modern bee hive separates the honey chamber from the brood chamber?

.....

b) State any **two** conditions that lead to swarming in honey bees.

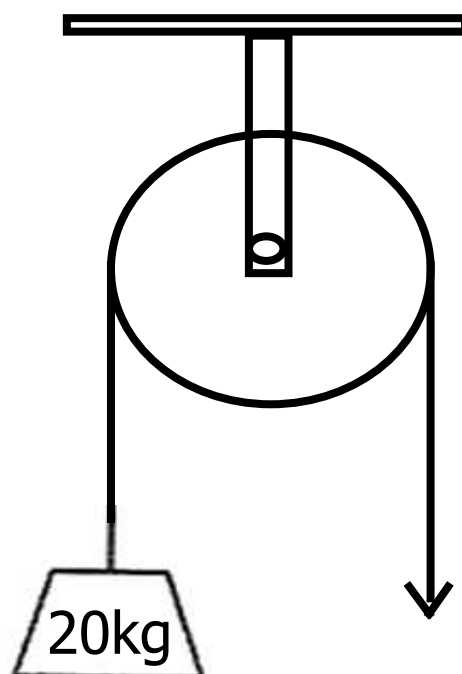
(i)

(ii)

c) How are worker bees able to carry pollen from flowers?

.....

51. The diagram below shows a type of pulley system. Study and use it to answer the questions that follow.



a) Name the pulley system above.

.....

b) How does the above pulley system simplify work?

.....

- c) Mention any **one** force that makes work difficult when using the above pulley system.

.....

- d) State any one use of the above pulley system at school.

.....

52. a) Mention any **two** diseases that can be treated without using drugs.

(iii)

(iv)

- b) Give any **two** ways of preventing diseases without using drugs.

(i)

(ii)



53. a) Give any **two** causes of silting of water bodies.

(i)

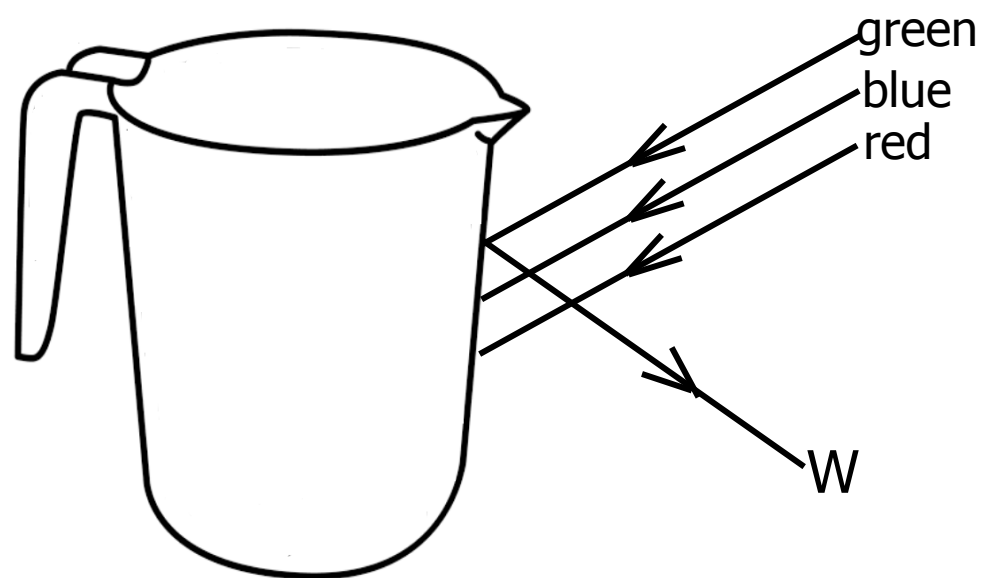
(ii)

- b) Write down any **two** ways of controlling silting of water bodies

(i)

(ii)

54. The diagram below shows light rays of different colours striking a plastic jug. Study and use it to answer the questions that follow.



- a) Name the ray of light marked with letter **W**.

.....

- b) Identify the colour of the jug.

.....

- c) Give a reason for the response you have written in (b) above.

.....

.....

- d) What name is given to the above colours on the jug?

.....

55. a) Give any **one** example of food taboo in the community.
-
- b) State any **two** advantages of food taboos in the community.
- (i)
 (ii)
- c) In which **one** way can food taboos affect the health of children?
-
.....



