



RESOURCE EXAMINATION SET
2022

INTEGRATED SCIENCE
Time Allowed: 2 hours 15 minutes

Random 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 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** questions. **All** the working for both sections **A** and **B** must be
4. **All** working must be done using a **blue** ball point pen or ink. Any work done in pencil will **not** be marked.
5. Unnecessary **changes** in your work and 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.

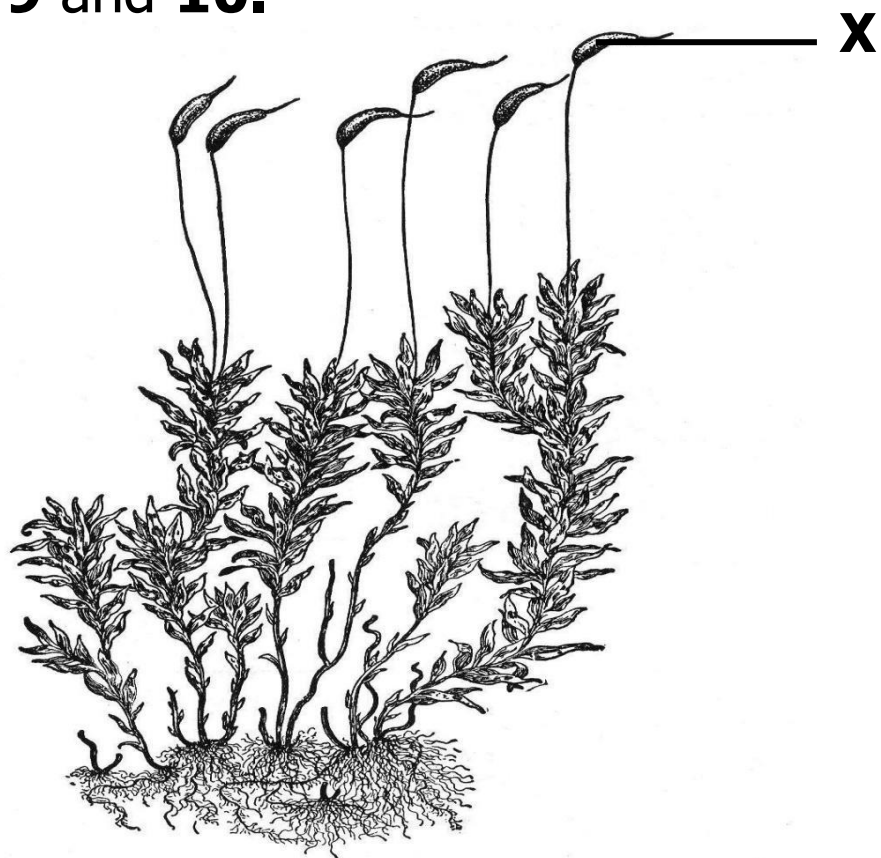
FOR EXAMINERS' USE ONLY		
Qn.No.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A: 40 MARKS

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

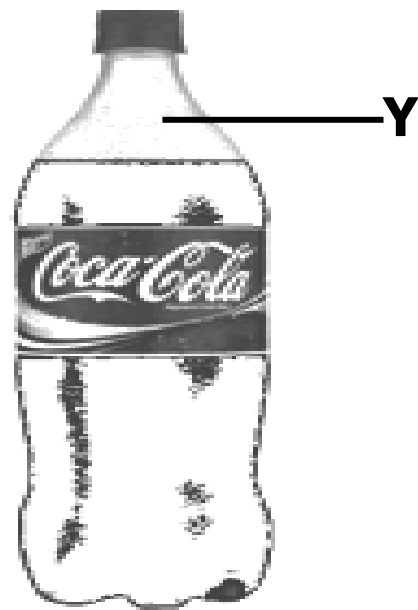
1. Name the body organ that uses sound energy to function.
.....
2. Which element of Primary Health Care is promoted by scrubbing sandals regularly?
.....
3. Name the main energy resource from nuclear fuels.
.....
4. Mention any **one** factor that affects the rate of evaporation.
.....
5. State the main reason why objects weigh less when immersed in water.
.....
6. State any **one** way of improving the production of anti bodies in the body.
.....
7. Apart from carbohydrates mention any **one** other class of food that provides energy to the body.
.....
8. State the difference between the movement of a frog and a snake.
.....
.....

The diagram below shows **a non flowering plant**. Study and use it to answer questions **9** and **10**.



9. To which group of non flowering plants does the above plant belong?
.....
10. How is part marked **X** useful to the above non flowering plant?
.....
11. Why is dew formed at night and not during day?
.....
12. State any **one** way in which brick making affects biodiversity in the Environment.
.....
13. Which group of birds help to promote sanitation in an area?
.....
14. Which property of air enables a person to wear perfume on their body?
.....

The diagram below is of **a sealed soda bottle** .Study and use it to answer questions **15** and **16**



- 15. Why was the space labeled **Y** left in the bottle?
.....
- 16. Name the gas which bubbles out when the bottle is opened.
.....
- 17. Mention any **one** disorder of the reproductive system in males.
.....
- 18. Why is an egg shell porous in its appearance?
.....
- 19. Give the use of a lactometer to a cattle farmer.
.....
- 20. State any **one** reason why it is important to cover the mouth in a handkerchief when sneezing.
.....



21. In which way does the sun contribute to the formation of rain?

.....

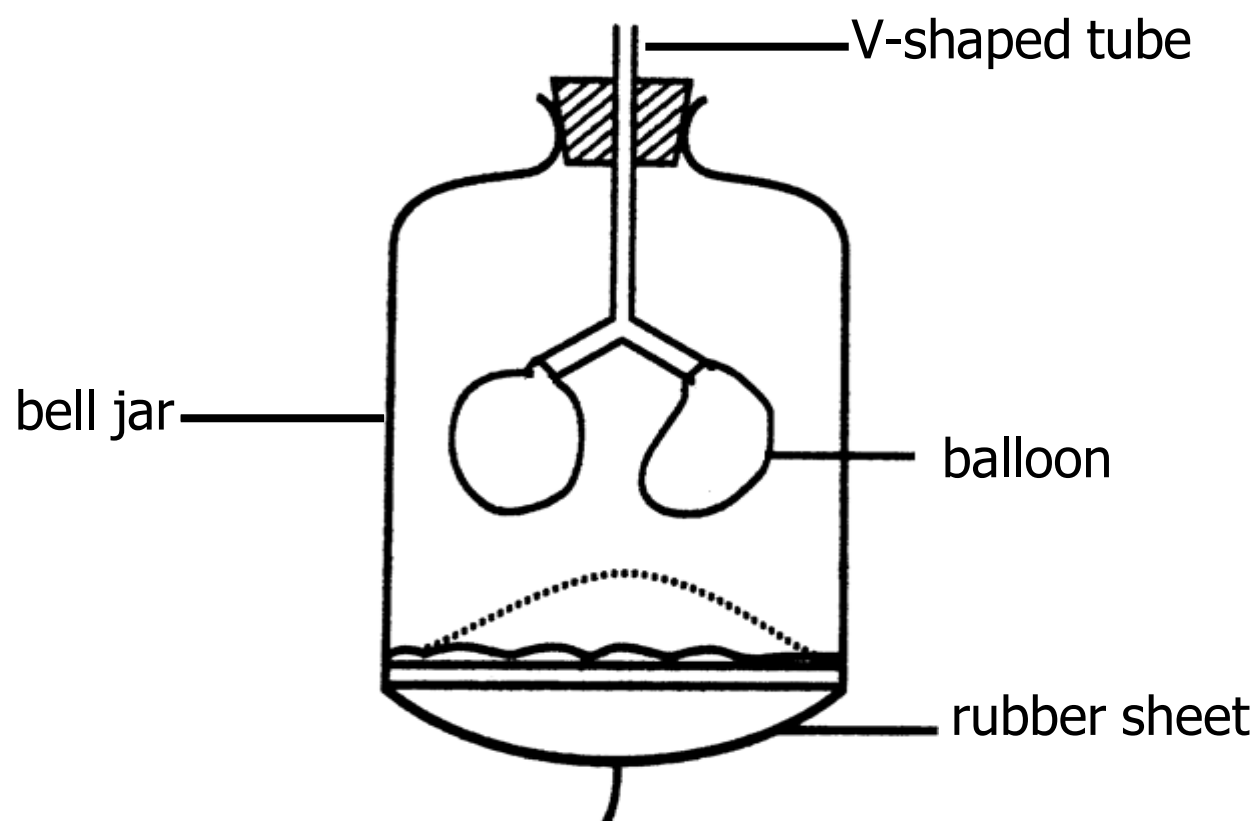
22. Name the longest bone in the upper limb.

.....

23. Give the role of the tongue during food digestion.

.....

The diagram below shows **how one of the body systems works**. Study and use it to answer the questions **24** and **25**.



24. Name the body system represented by the above demonstration.

.....

25. What does the rubber sheet represent?

.....

26. Apart from the type of soil, name any **one** other factor to consider when constructing a house.

.....

27. Why is it recommended to use lukewarm water when tepid sponging a person with fever?

.....

28. Give an example of a mollusc which is a crop pest to a farmer.

.....

29. Name the condition characterized by sunken soft spot of the baby's hand.

.....

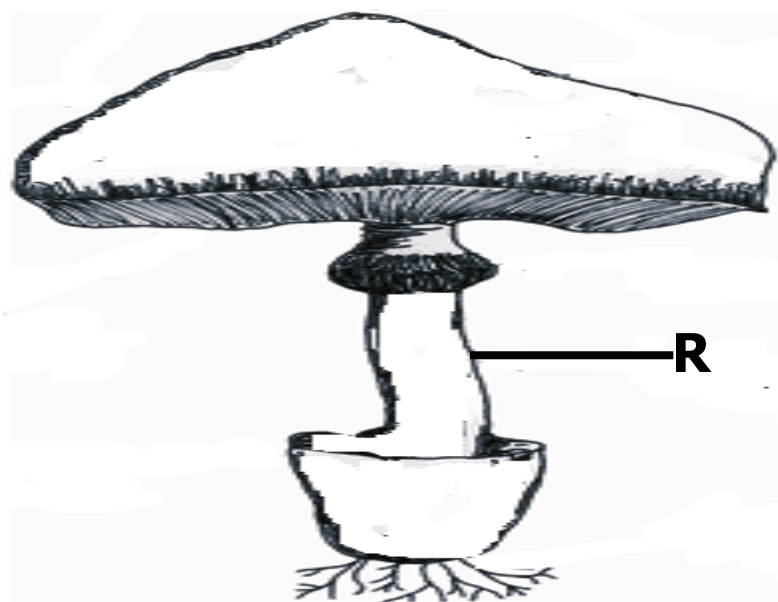
30. How does the removal of broken bottles in the compound help in the control of malaria?

.....

.....



The diagram below shows **a fungus**. Study and use it to answer the questions **31** and **32**.



31. Name the part marked **R**.

.....

32. Why is the above fungus unable to make its own food?

.....

33. Give any **one** way in which smoking affects teeth.
-
34. Apart from gaseous state, mention **one** other state of matter in which heat travels by convection.
-
35. State **one** reason why sheering in sheep is done in summer season.
-
36. In which way is a damp proof course useful when constructing a house?
-
37. State any **one** importance of rinsing clothes during washing.
-
38. Name the type of bees that are friendly to a crop farmer.
-
39. Why shouldn't people with AIDS be isolated?
-
-
40. Mention the weather instrument used to measure the intensity of sunshine received in an area.
-

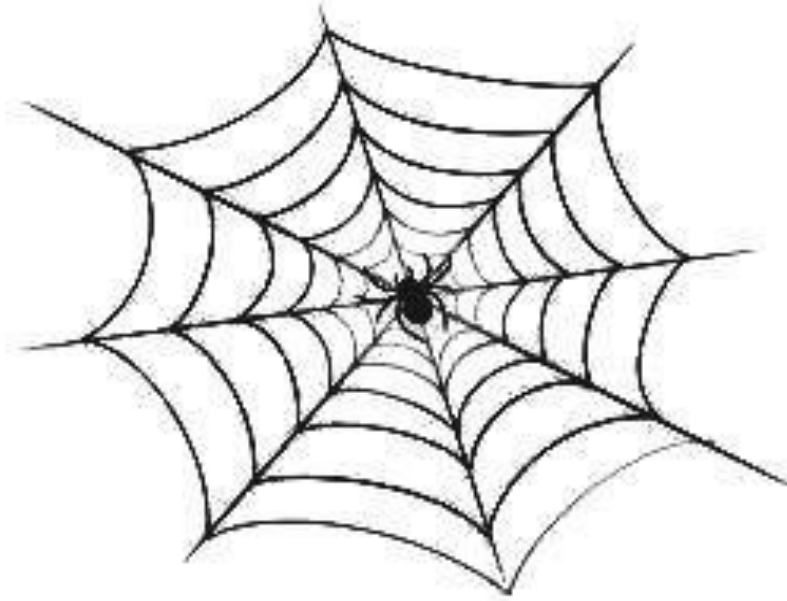


SECTION B: 60 MARKS

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

41. (a) State the use of each of the following items in promoting personal hygiene;
- (i) Pumice stone
-
- (ii) Rod cutter
-
- (b) Give any **one** reason why it is important to bathe regularly.
-
- (c) Mention any **one** disease spread due to poor personal hygiene.
-

42. The diagram below shows **a structure built by a spider**. Study and use it to answer the questions that follow.



- (a) Name the structure above.
-
- (b) Give any **two** importance of the above structure to a spider.
- (i)
- (ii)

(c) State any **one** reason why a spider is not grouped in the same group with a butterfly.

.....

43. (a) State any **two** ways in which mulching helps to control soil erosion in a garden.

(i)

(ii)

(b) Give any **two** effects of soil erosion in the environment.

(i)

(ii)



44. (a) Give the main function of the heart in the human body.

.....

(b) Apart from the heart, give **one** other organ of the circulatory system.

.....

(c) Why does blood go to the following organs during circulation?

(i) Lungs

.....

(ii) Kidneys.

.....

45. The table below shows **measures** and their **basic units**. Study and complete it correctly.

Measures	Units
(i) Density
(ii)	grams
(iii)	cubic units
(iv) Weight

46.

(a) In which way do people get tape worm infestations?
.....

(b) What do tape worms feed on in the human body?
.....

(c) State the function of each of the following parts to a tape worm.

(i) Suckers
.....

(ii) Segments
.....



47.

(a) State any **one** way in which bacteria are useful to milk processing industries.
.....

(b) How is the reproduction of bacteria different from that of yeast?
.....
.....

(c) How are flagella useful to bacteria?

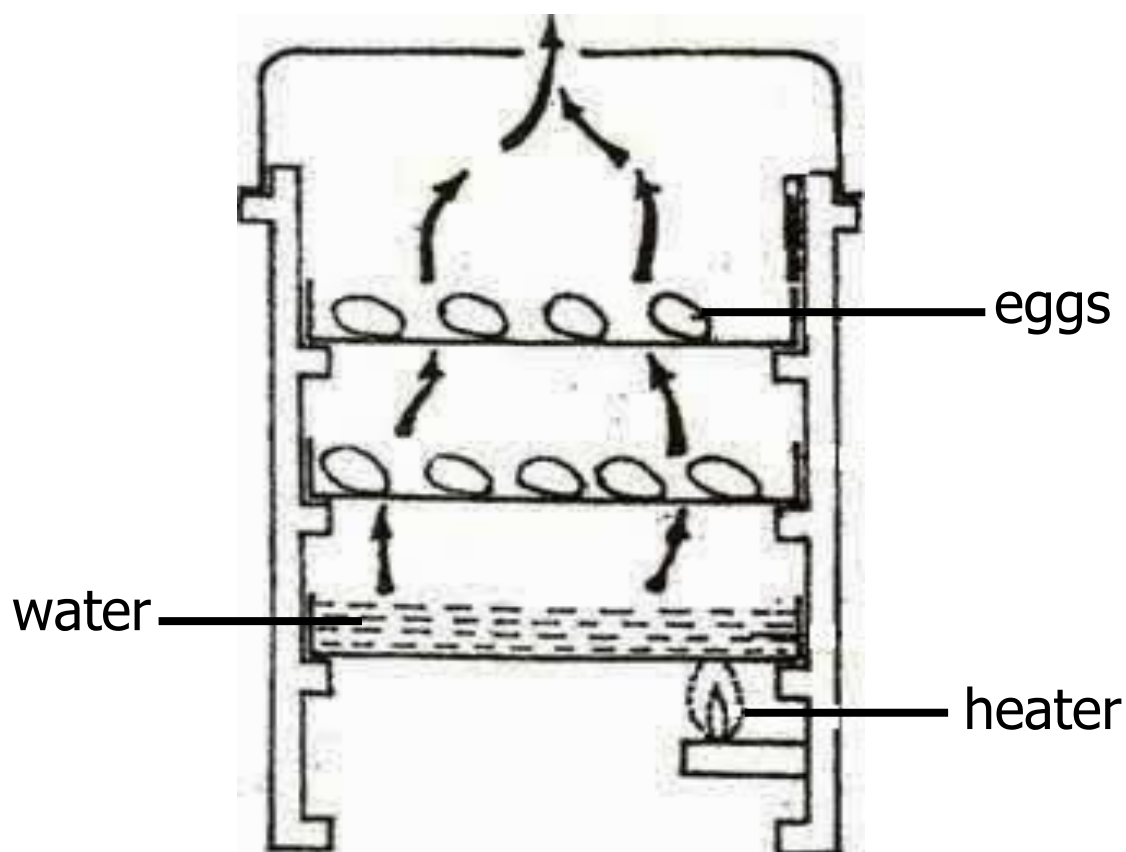
.....

(d) Why is it not advisable to pour dangerous chemicals like paraffin and acids in pit-latrines?

.....

.....

48. The diagram below shows **a method of incubation**. Study and use it to answer the questions that follow.



(a) Name the method of incubation shown in the diagram above.

.....

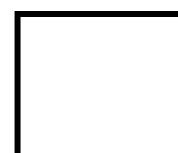
(b) State the function of the heater in the diagram above.

.....

(c) Give any **two** advantages of the above method of incubation.

(i)

(ii)



49. The table below shows **forms of current electricity in A** and their **source in B**.

A	B
(i) Solar electricity (ii) Hydro electricity (iii) Thermal electricity (iv) Chemical electricity	dry cell fossil fuel sun fast flowing water

For each of the forms of current electricity in **A**, write the source from which it is produced from **B**.

- (i) Solar electricity
- (ii) Hydro electricity
- (iii) Thermal electricity
- (iv) Chemical electricity

50. (a) Name any **two** body organs that are greatly affected by alcohol.

- (i)
- (ii)

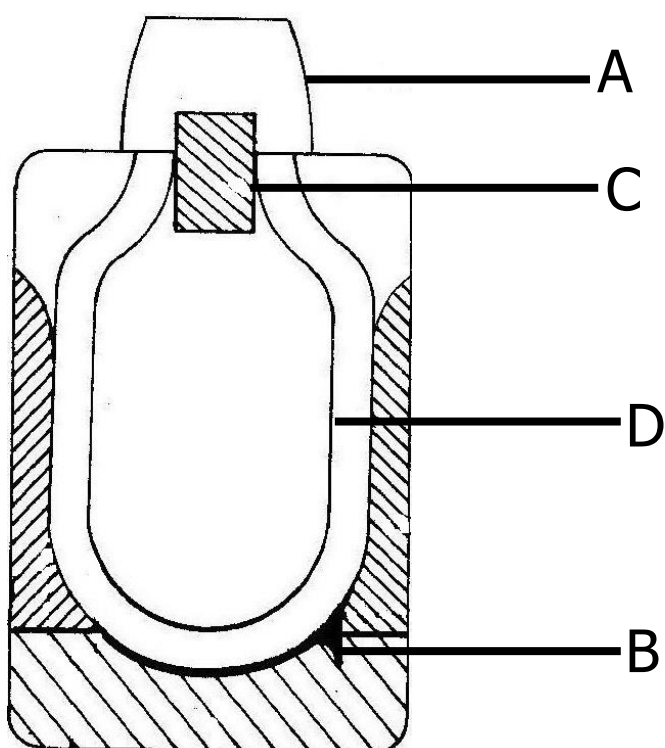
(b) Apart from damaging body organs, state any **two** other effects of alcoholism to an individual.

- (i)
- (ii)

51. (a) Which communicable disease attacks both rabbits and human beings?
.....
- (b) State any **one** sign of the disease named in (a) above.
.....
- (c) Give any **one** reason why a caged hutch should be raised above the ground.
.....
- (d) Apart from raising the hutch above the ground, mention any **one** other quality a good hutch should possess.
.....
52. (a) Name **one** material from which local salt can be prepared at home.
.....
- (b) State the method that is used to prepare local salt at home.
.....
- (c) Give any **two** ways in which the local salt prepared at home is useful to people.
- (i)
- (ii)



53. The diagram below is of a **vacuum flask**. Study and use it to answer the questions that follow.



- (a) Name the parts marked **A** and **B**.

(i) **A**

(ii) **B**

- (b) State the difference in function between parts marked **C** and **D**.

.....

.....

- (c) In which way is a vacuum flask able to maintain the required temperature of hot liquids?

.....

54. (a) Which structures in the muscular skeletal system of a person join,
- (i) bones to bones
- (ii) bones to muscles
- (b) Mention **one** disorder of the muscular-skeletal system.
-
- (c) Give **one** health practice that helps to keep the muscular skeletal system in a good working condition.
-
55. (a) State the importance of a vent pipe on a Ventilated Improved Pit-latrine (VIP Latrine).
-
- (b) Why should a VIP latrine be left without a lid at the horn?
-
-
- (c) Apart from having a vent pipe, in which **two** other ways is a VIP latrine different from an ordinary pit-latrine?
- (i)
- (ii)

