

P.7 PRE-MOCK EXAMINATIONS 2023

SET TWO

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

Random No.						Personal No.		

Candidate's name:

Candidate's signature:

School Random number:

District No. :

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Read the following instructions carefully:

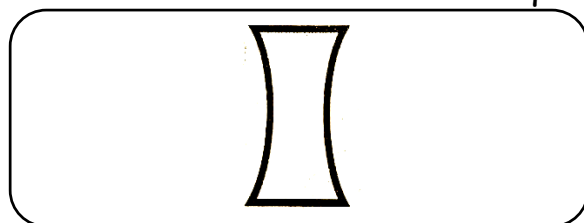
1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**.
Section **A** has **40** questions and section **B** has **15** questions. The paper has **15 printed papers** altogether.
3. Answer **all** questions. **All** the answers for 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 diagrams.
5. Unnecessary **changes** in your work and handwriting that cannot easily be 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 EXAMINER'S 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)

1. Name any one mineral salt deficiency disease in children.
.....
2. Write down any one effect of tobacco smoking to a pregnant woman.
.....
3. Give any one condition which is necessary for the formation of reddish brown substance on iron tools left outside at night.
.....
4. Name the method of harvesting trees which involves cutting of the whole tree at stump level.
.....
5. Why does an inflated balloon burst when put under too much sunshine for a long time?
.....
6. Write down any one adaptation of a cactus plant to its life in desert.
.....
7. In which state of matter is carbon dioxide filled in a fire extinguisher?
.....

Below is a diagram of a lens. Use it to answer questions 8 and 9.



8. Name the eye disorder corrected using the lens shown above.
.....
9. How does the lens shown above affect a parallel beam of light?
.....
10. Give any one reason why water is not used as a thermometric liquid.
.....
11. Identify the routine practice on a poultry farm that enables a farmer to have easy and quick access to loans from banks.
.....

12. What advice can you give to a mother whose children are suffering from diarrhoea?
.....
13. Of what importance is a dynamo in a car?
.....
14. Name the gas which accumulates in the atmosphere during decomposition.
.....
15. Which sense enables a person to identify colours of objects?
.....
16. Name any one sexually transmitted disease which can cause blindness in new born babies.
.....
17. Shafikah cut herself while peeling potatoes and dark red blood oozed out. What type of blood vessel did she cut?
.....

The diagram below shows a mother washing clothes. Study it and answer questions **18** and **19**.



18. State one problem a mother is likely to face as a result of washing clothes with hard water.
.....
19. Name any one step in laundry a mother must have done before washing?
.....
20. Give any one function of veins in leaves.
.....
21. Why should a person with sickle cell anaemia be advised to wear a sweater on a cold day?
.....

22. Write down any one advantage of keeping crossbreeds over exotic breeds of chicken.
.....
23. Why is biceps muscle grouped under voluntary muscles?
.....
24. To which group of mammals does an elephant shrew belong?
.....
25. How does a chameleon benefit from its long sticky tongues?
.....
26. Give a reason why athletes always breathe heavily after an event?
.....
27. State the reason why people are discouraged from putting potted plants inside their bedrooms at night.
.....
28. Mention any one use of a veranda on a dwelling house.
.....
29. How do fish protect their eggs from aquatic predators?
.....
30. Give a reason why a kitchen should be ventilated properly.
.....
31. Write down any one way of preventing obesity among children.
.....
32. Name the blood-sucking insect that bites school children at night when they fail to keep their beddings clean.
.....
33. Which property of air enables wind to remove husks from seeds?
.....
34. Name the type of curved mirrors that provide a wider field of view.
.....
35. Give a reason why cattle are always given enough drinking water before dipping them in acaricides.
.....

The diagram below shows a common method of harvesting tuber crops. Study it carefully and answer questions **36** and **37**.

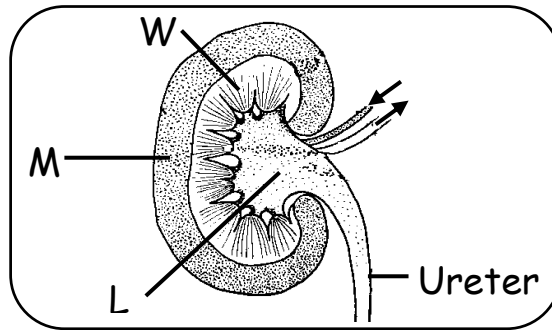


36. Name the method of harvesting tuber crops shown above.
.....
37. Why is the above method of harvesting tuber crops not recommendable for commercial purpose?
.....
38. Name any one vector that spreads relapsing fever.
.....
39. State any one importance of charcoal when cleaning our teeth.
.....
40. Name the method of milking that should be used by dairy farmers with large herds of dairy cattle.
.....

SECTION B (60 MARKS)

41. (a) Name any one part of the bird's egg which provides food nutrients to the growing embryo.
.....
- (b) How is an egg shell adapted to protection of the inner parts of an egg?
.....
- (c) Mention any one abnormality in bird's eggs.
.....
- (d) What type of change occurs when an egg breaks?
.....

42. The diagram below is of a human kidney. Study it carefully and answer questions that follow.



(a) Name the part marked W.

.....

(b) Give any one adaptation of the part marked M to its function.

.....

(c) State the function of part L in the kidney.

.....

(d) Name the waterborne disease that affects the kidneys.

.....

43. (a) Give a reason why drone bees are not commonly found in bee hives.

.....

(b) Name the structures used by worker bees to carry the following substances from plants to the bee hive.

(i) Pollen:

(ii) Nectar:

(c) Why is it not a wise idea to harvest honey during day time?

.....

44. (a) Name any one agent of soil erosion.

.....

(b) In which way do the following farming practices cause soil erosion?

(i) Bush burning:

.....

(ii) Over cultivation:

.....

(c) Give any one way in which soil erosion affects crop growing.

.....

45. (a) Why is burning regarded as a chemical change?

.....

(b) Write down any one condition necessary for burning.

.....

(c) How do the following substances put out fire?

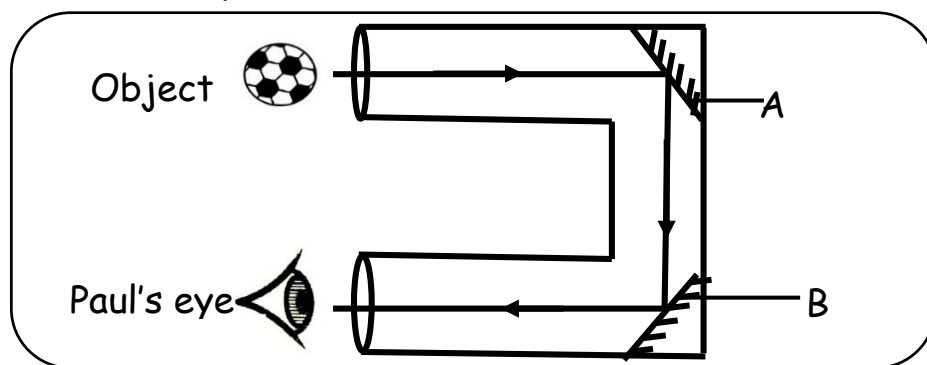
(i) Sand:

.....

(ii) Water:

.....

46. The diagram below shows an optical instrument. Study and use it to answer questions that follow.



(a) Name the optical instrument shown above.

.....

(b) Give any one characteristic of an image seen by the Paul's eye.

.....

(c) State the use of the optical instrument above to a night watchman.

.....

(d) What is the value of the angle of incidence when the incident ray strikes plane mirror at a right angle?

.....

47. (a) Which type of teeth grows first in the jaws of a baby?

.....

(b) Name the removable devices used to replace missing teeth in the jaws.

.....

(c) How does calcium deficiency affect the human teeth?

.....

(d) Give any one way of caring for the teeth.

.....

48. (a) Name the fluid that reduces friction during heart movements.

.....

(b) Write down any two conditions that can increase heartbeat.

(i)

(ii)

(c) How does regular making of physical exercises benefit the heart?

.....

49. (a) Write down the function of each of the fins listed below to a fish when swimming in water.

(i) Caudal fin:

(ii) Pectoral fin:

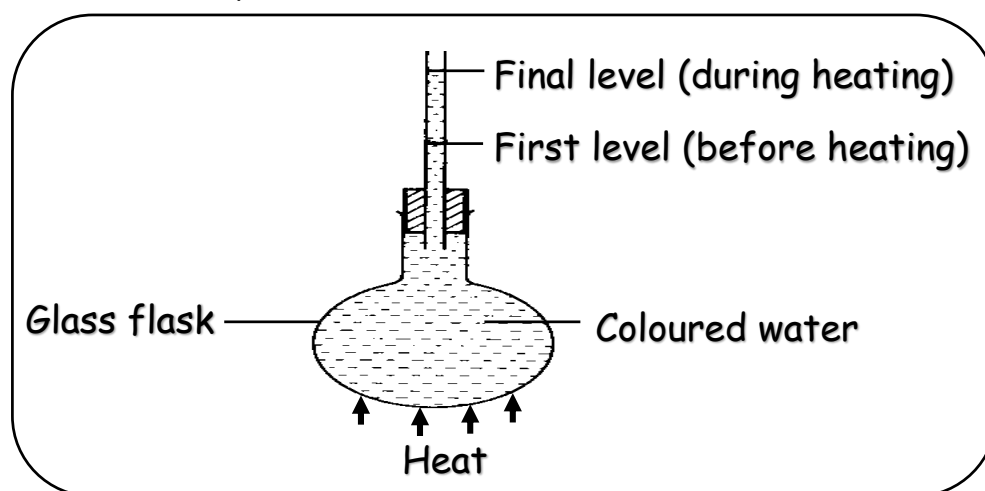
(b) Why does a lungfish take long to die when removed from water?

.....

(c) In which way does fish keeping help in control of malaria?

.....

50. P.5 pupils carried out the experiment below. Study it carefully and answer the questions that follow.



(a) What was the experiment about?

.....

(b) Why did the level of coloured water in the narrow glass tube rise during heating?

.....

(c) How does heat pass through the flask to reach the coloured water put inside it?

.....
(d) By what process do liquids move up through narrow tubes?

.....
51. (a) How is an echo formed?

.....
(b) Why do music producers always put soft porous materials in their music recording studios?

.....
(c) Give any **one** way in which echoes are useful to people on water bodies.

.....
(d) What do we call the highest point of a sound wave?

.....
52. Rearrange the steps below to show how the water cycle occurs.

(i) Nimbus clouds become heavy and fall as rain.

(ii) Water vapour rises to the atmosphere.

(iii) Sun's heat causes evaporation and transpiration.

(iv) Water vapour condenses into nimbus rain.

(i)

(ii)

(iii)

(iv)

53. (a) Name the vaccine which is injected in the baby's body at birth.

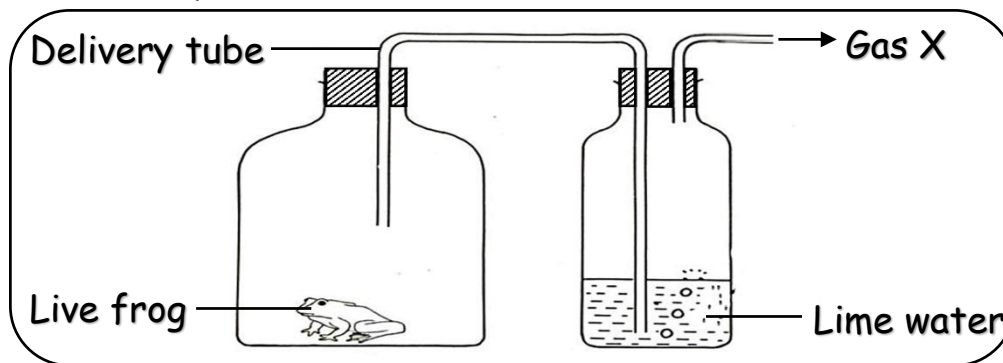
.....
(b) At what age does a baby receive the first dose of DPT vaccine?

.....
(c) Name any **one** viral child hood immunizable disease.

.....
(d) Write down any **one** importance of a child health card to a mother.

.....

54. The experiment below is about respiration. Study it carefully and answer questions about it.



(a) What does the experiment above prove about respiration?

.....

(b) Name the gas marked X.

.....

(c) What will happen to lime water after some time?

.....

(d) How does a frog benefit from respiration?

.....

55. (a) List down any **two** exotic breeds of dairy cattle.

(i)

(ii).....

(b) Name the special hydrometer commonly used on a dairy farm to check the purity of milk.

.....

(c) Why should a dairy farmer wash the udders of dairy cows with warm water before milking?

.....

END

