



THE SCIENCE DOCTOR

PRIMARY SEVEN

PLE MOCK, 2025

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

EMIS NO.						PERSONAL NO.		

Candidate's Name: _____

Candidate's Signature: _____

School: _____

District: _____

Read the following instructions carefully:

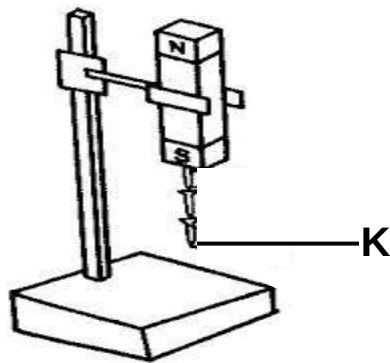
1. This paper has **two** sections: **A** and **B**. Section **A** has **40** questions and **40** marks. Section **B** has **15** questions and **60** marks.
2. Answer **all** questions. **All** the working for both Sections **A** and **B** must be shown in the spaces provided.
3. **All** answers **must** be done using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked except drawings and diagrams.
4. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
5. Do not fill in 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)

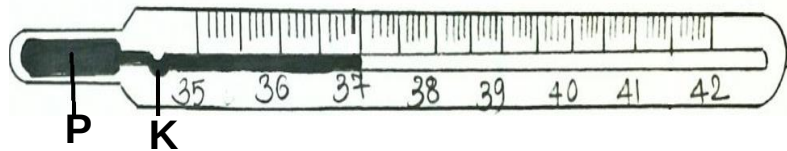
1. Name the part of the flower that produces pollen grains.
.....
2. State **one** way how rusting is similar to burning.
.....
3. Which part of the eye has similar function as the film of the lens camera?
.....
4. Name any **one** exotic breed of goats reared for milk production.
.....
5. Mention any **one** process that helps in production of biogas.
.....
6. Give **one** reason why oil is put in moving parts of a machine.
.....
7. How do lions obtain energy from plants?
.....
8. Apart from bananas, give any other one plant propagated by using suckers.
.....
9. Name the viral disease spread by mosquitoes to people.
.....
10. How does wringing of clothes ease drying?
.....
11. Name the method of heat transfer that enables people to iron clothes.
.....
12. Mention the part of the ear that collects sound waves from the environment.
.....

Study the diagram below and answer the question 13 and 14.



13. Name the method of making magnet above.
.....
14. Identify the pole marked **K**.
.....
15. Name the addictive drug found in tobacco.
.....
16. State any one characteristic of nonrenewable resources.
.....
17. Why do objects float on water?
.....
18. Which type of fertilization do amphibians undergo?
.....
19. How is transpiration useful to the environment?
.....
20. How is a smoker important to the honey harvester during honey harvesting?
.....
21. How does putting of laying nests in dark corners help to control egg eating in poultry?
.....
.....
22. Why does a fish die when removed from water?
.....

Study the diagram below and answer questions 23 and 24.



23. How is the function of part marked **K** similar to that of valves found in veins?
.....
24. Name the liquid metal commonly used in the above instrument.
.....
25. How does the use of biogas help to conserve the environment?
.....
26. How is the information collected during health survey important to the government?
.....
27. Name any **one** natural change that destroys the environment.
.....
28. How do crops benefit from trees planted together?
.....
29. Name any **one** example of fertilizers that do not pollute the soil.
.....
30. How is the function of the tendon different from that of the ligament?
.....
31. What energy change takes place in dry cells when in use?
.....
32. Why should a rabbit hutch have a run?
.....

33. In which part of the kidney does selective reabsorption of water and mineral salts take place?

.....

34. How can scalds and burns be prevented in homes?

.....

35. Name the part of air that is used in fire extinguisher.

.....

Study the diagram of a leaf below and answer questions 36 and 37.



36. Name the type of compound leaf shown above.

.....

37. Mention the type of leaf venation possessed by the leaf above.

.....

38. Which secondary sex change in adolescents causes them to smell?

.....

39. How is hydrochloric acid useful during digestion of food in the stomach?

.....

40. Write COVID-19 in full.

.....

SECTION B (60 MARKS)

41. (a) State any **two** characteristics of arthropods.

(i)

(ii)

(b) To which group of arthropods do the following animals belong;

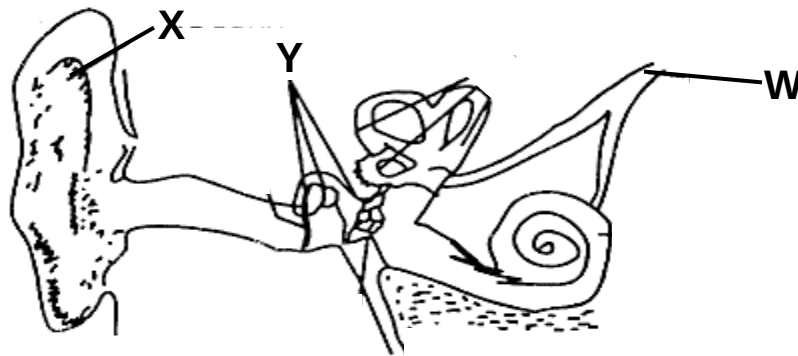
(i) housefly

.....

(ii) crab

.....

42. The diagram below is of the human ear. Study and use it to answer the questions that follow.



(a) Name the parts labeled,

(i) **X**

(ii) **Y**

(b) How is part marked **W** important to the ear?

.....

(c) Name any **one** disease that affects the ear.

.....

43. (a) Give the function of the following parts of a flush toilet;

(i) water tank

.....

(ii) bowl

.....

(b) State any **one** way of keeping a flush toilet clean.

.....

(c) Name any **one** disease that can spread in an area where people don't use latrines.

.....

44. (a) How is the backflow of blood prevented in arteries yet they don't have valves?

.....

(b) State any **one** structural difference between arteries and veins.

.....

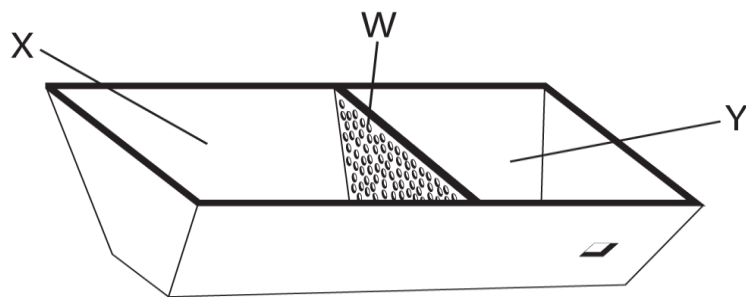
(c) State any one adaptation of the blood capillaries to their function.

.....

(d) Give any **one** disease that affects the red blood cells.

.....

45. Study the diagram of a bee hive below and use it to answer the questions that follow.



(a) Name the chamber marked;

(i) **X**

(ii) **Y**

(b) How is part marked **W** useful in the above type of bee hive?

.....

(c) State the advantage of using the above type of beehive.

.....

46. (a) What is food preservation?
.....
- (b) State any **one** reason for preserving food at home.
.....
- (c) Mention any **two** local methods of preserving food at home.
- (i)
- (ii)
47. (a) How do the following vectors spread diseases to people?
- (i) houseflies
.....
- (ii) mosquitoes
.....
- (b) Name the disease spread by Culex mosquitoes to people.
.....
- (c) Mention any **one** way of controlling diseases spread by mosquitoes.
.....
48. (a) Name the type of germination the following seeds undergo;
- (i) sorghum
.....
- (ii) beans
.....
- (b) How is water important during seed germination?
.....
- (c) Apart from water, give any other **one** condition for seed germination.
.....
49. (a) Give any **two** ways the community members can be educated about health issues.
- (i)
- (ii)

(b) Apart from outbreak of diseases, give any **one** other example of health concerns in the community.

.....

(c) How are school health parades useful in schools?

.....

50. **Study the table below and complete it correctly.**

Part	Function
Testes	
.....	Stores sperms
Sperm duct	
.....	Regulate the temperature around the testes
.....	

51. **Sentences below show how to separate salt from sand in a wrong order.**

(a) Heat the salt solution to evaporation to dryness.

(b) Filter the mixture and collect the salt solution.

(c) Put water in the mixture of salt and sand and stir.

(d) Put the mixture of salt and sand in a clean container.

Rearrange the above sentences in a correct order.

(a)

.....

(b)

.....

(c)

.....

(d)

.....

52. Study the diagram below and answer the questions that follow.



(a) Name the system of keeping poultry shown above.

.....

(b) Name the poultry vice controlled by the above system of keeping poultry.

.....

(c) Apart from controlling vices, give other **two** advantages of the above system.

(i)

(ii)

53. **Study the list of living organisms below and answer the questions that follow.**

Hen, Bacteria, Maize, Eagle

(a) Form a food chain from the above list of organisms.

.....

(b) Identify from the above food chain the;

(i) producer

.....

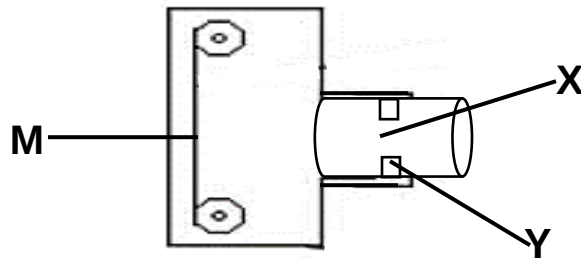
(ii) secondary consumer

.....

(c) How are bacteria important in a food chain?

.....

54. Study the diagram of the lens camera below and use it to answer the questions that follow.



(a) Name the parts labelled;

(i) **X**

(ii) **Y**

(b) State the function of part labelled **M**.

.....

(c) Mention any **one** characteristic of images formed in the lens camera.

.....

55. (a) Give any **two** examples of beast of burden.

(i)

(ii)

(b) How are animals used as energy resources? (Give **one** way)

.....

(c) Give any **one** way of conserving animals in the environment.

.....

THE END