



SMART STAR EXAMINATIONS BOARD

PRE - MOCK EXAMINATION SET ONE

2025

PRIMARY SEVEN

INTEGRATED SCIENCE

Time allowed : 2 hours 15 minutes

EMIS No.						Personal No.		

Candidate's Name

Candidate's signature.....

School Name.....

Read the following instructions carefully;

1. This paper has **two** sections: **A** and **B**.
Section **A** has **40** questions and section **B** has **15** questions.
2. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a **blue** or **black** ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. Unnecessary **changes** of work and any handwriting that cannot easily be read may lead to **loss of marks**.
5. Do **not** fill anything in the boxes indicated: **“For Examiners’ Use Only”** and boxes inside the question paper.

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

SECTION A: 40MARKS

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

1. Name **one** example of stem tuber.

.....

2. How does a tube fiddle produce sound?

.....

3. Give **one** reason for grooming finger nails to a **P.7** pupil.

.....

4. Identify the alloy from which a fuse is made

.....

5. What term is used to mean the pilling of soil around plants in the garden?

.....

The diagram below shows a method that plants with weak stems use to climb others. Use it to answer questions **6** and **7**.



6. Name the structure labelled with letter **P**

.....

7. Apart from the above method, give **one** other method plants use to climb others.

.....

8. Why is a pair of pliers grouped under double levers?

.....

9. Adellah found tea in a thermos flask after she went back home. What body sense enabled her to know whether the tea was hot or cold?

.....

10. Apart from electromagnetic method, give any other method of storing sound

.....

11. Write **one** importance of PIASCY messages to **P.7** pupils.



.....

12. A stone of mass 200g has a volume of **20cm³**. Calculate its density.

.....

13. State the cause of marasmus in infants

.....

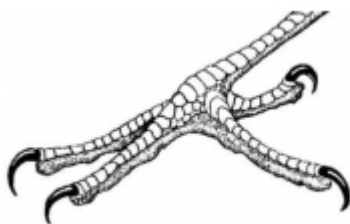
14. What is the meaning of the term vegetative propagation?

.....

15. Mulema`s baby has swollen neck, sore throat and difficulty in breathing.
Which disease is the baby likely to be suffering from?

.....

The diagram is of a foot of a certain bird. Study and use it to answer question **16** and **17**.



16. To which group of birds do the above belong?

.....

17. Name **one** other group of vertebrates with the same mode of reproduction as birds.

.....

18. Give **one** use a child health card to a healthy worker.

.....

19. Why is an Ecosan latrine referred to as a UDDT?

.....

20. Identify the importance of ecdysis to insects.

.....



21. Crop rotation is the growing of different crops on the same piece of land seasonally. How does the crop growing practice maintain soil fertility?

.....

22. State the function of guard rails on a modern pig sty?

.....

23. What characteristic makes clay soil suitable for making ceramics?

.....

24. Identify the state of matter where heat travels fastest.

.....

25. Name **one** disease that affects platelets as components of blood.

.....

26. Which fungus normally grows on leftover food stuffs?

.....

27. During charcoal burning, the piled wood logs are covered with soil. Give a reason why it is done.

.....

28. Name the limbless amphibian.

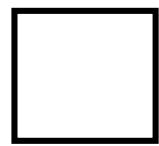
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29. Identify **one** characteristic of tuber crop pests.

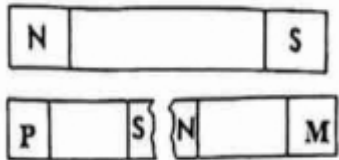
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30. Name **one** exotic breed of chicken kept for egg production.

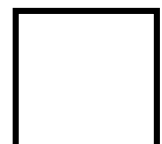
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The diagram shows a certain property of magnets. Study and use it to answer questions **31** and **32**.



31. Name the property of magnets shown in the diagram above.
.....
32. Apart from the above, name **one** other property of magnets.
.....
33. Identify the cattle disease characterized by animals moving in circles
.....
34. Give **one** example of exotic breeds of rabbits
.....
35. Why should babies be given a lot of food stuffs rich in proteins?
.....
36. Write **one** principle of Primary Health Care.
.....
37. Give **one** role of the stomach during food digestion.
.....
38. What scientific name is given to the pupa stage of a butterfly?
.....
39. State the reason why sugarcane is not regarded as stem tuber yet it stores food in its stem.
.....
40. Give any **one** duty of a worker bee in a hive.
.....



SECTION B: 60 MARKS

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

41. a) Name the movable joint found at the elbow.

.....

b) Name **two** bones that form the joint at the knee.

i.

ii.

c). How does a cartilage reduce friction at a joint?

.....

42. a) Name **one** process in the environment in which;

i). Oxygen is produced

.....

ii). Carbon dioxide is increased in the atmosphere

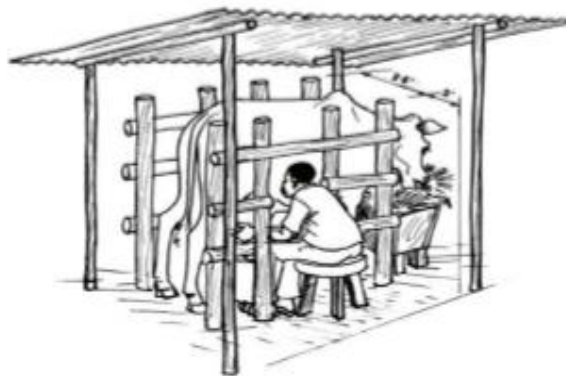
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b) Give **two** ways of conserving mineral resources in the environment.

i)

ii)

43. The diagram is of a farm structure used in cattle keeping. Study and use it to answer questions that follow.



a) Name the farm structure shown in the diagram above.

.....

b) Calculate State the activity that a cattle farmer carries out from the above farm structure.

.....

c) Write down **two** methods of preserving hides.

i)

ii)



44. You are given the following materials:

Water, dry soil, hard paper.

Describe an experiment to demonstrate splash erosion. (4marks)

.....

45. Study the table below and use it to answer questions.

I	J	K	L
Egret	Newt	Bee	Gorilla
Dove	Frog	Scorpion	Man
Turkey	Toad	shrimp	Bush baby

a) How are organisms in group **K** different from the rest of the organisms in the table?

.....

b) Give any **one** way organisms in group I care for their young ones.

.....

c) Which of the above groups of organisms undergoes external fertilization?

.....

d) How do organisms in group **L** differ from those in group **I** in terms of reproduction?

.....
.....

46. a) Give **two** reasons why we preserve food.

- i).....
ii)

b) How do the following methods preserve food?

i)Smoking:

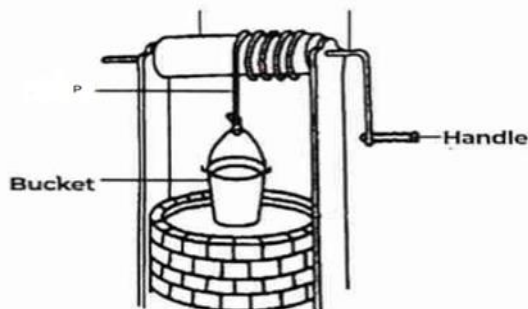
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ii)Refrigeration:

.....



47. The diagram shows a simple machine. Study and use it to answer question **47**.



a) To which type of simple machines does the above machine belong?

.....

b) State **one** use of the simple machine above.

.....

c) Give **one** other example of a simple machine that belongs to the same class as the above.

.....

d) Name **one** force that is overcome when using the simple machine above.

.....

48. The table below shows activities in Part A carried out by farmers and the effects of the activities in Part B

Part A (activities)	Part B (Effects)
Mulching	Promotes convectional rainfall
Irrigation	Leads to death of crop pests
Afforestation	Preserves moisture in the soil
Crop rotation	Allows growth of crops in all seasons.

Write the correct effect to the activity in the space provided below.

Mulching:.....

Irrigation:.....

Afforestation:.....

Crop rotation:.....

49. a) State **one** difference between heat and temperature.

.....

.....

b) Give **one** reason why mercury is commonly used in clinical thermometers.

.....

c) Convert **20°C** to **°F**

.....

50. a) Define seed dispersal.

.....
.....

b) Suggest **two** advantages of seed dispersal.

i)

ii)

c) How are black jack seeds adapted to their mode of dispersal?

.....

51. a) The diagram is a male reproductive system. Study and use it to answer question **51**.



a) Name the parts labeled **P** and **M**

P.....

M.....

b) Name the artificial method of family planning that involves cutting of part J.

.....

c) Give one disorder of the male reproductive system.

.....

52. a) What are poultry vices?

.....

.....

b) Give **two** examples of poultry vices.

i).....

ii)

c) How do perches help to control poultry vices in a coop?

.....



53. The sentences below are in a **wrong order**. Arrange them correctly to explain how biogas is produced.

i) The biogas produced is trapped by the gas tube to the heating or lighting equipment.

ii) Collect plant and animal materials and put them in a bio digester.

iii) The gas will be produced after decomposition of slurry by the action of anaerobic bacteria

iv) Add water to speed up decomposition in the bio digester.

.....

.....

.....

.....

.....

.....

54. a)What first aid would you give to casualties with these accidents;

i)Nose bleeding:

.....

ii) Foreign body in the ear:

.....

b) Cite **two** qualities of a good first aider.

i)

ii)

55. a) Give **two** examples of intestinal worms.

i)

ii)

b) How is a hookworm different from a tapeworm in terms of feeding?

.....

.....

c) Give **one** sign of tapeworm infection in humans.

.....

END

