



SMART STAR EXAMINATIONS BOARD

PLE PREPARATION TEST ONE 2025

PRIMARY SEVEN

INTEGRATED SCIENCE

Time allowed : **2 hours 15 minutes**

Random 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

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. Give **one** example of exotic breed of rabbits.

.....

2. State **one** reason for culling in poultry management.

.....

3. Give a reason why a wheel barrow is grouped under second class of levers.

.....

4. Identify the reason why birds are regarded as warm blooded vertebrates.

.....

5. State a reason why ventilators are put higher than windows on a living house.

.....

The diagram shows a fracture. Study and use it to answer questions **6** and **7**.



6. Name the type of fracture shown in the diagram above.

.....

7. State the first aid for the above fracture mentioned in number 6 above.

.....

8. Give **one** way the body cools itself on a hot day.

.....

9. State the way how crop rotation helps to control weed growth.

.....

10. Why is miraa grouped under narcotic drugs?

.....



11. Write **one** waste product of respiration.

.....

12. State **one** importance of weather forecasting to a farmer to a farmer.

.....

13. Give any **one** application of air exerts pressure in our daily life.

.....

14. Apart from tension of the strings, write down **one** other factor that affects the pitch of sound produced by a zither.

.....

15. Bacteria are among the single celled organisms in the environment. State **one** condition necessary for bacteria to multiply in number.

.....

The diagram below is of a part used in a natural method of vegetative propagation. Study and use to answer questions 16 and 17.



16. Name the method of propagation where the plant shown in the diagram above is used.

.....

17. Apart from an onion, name **one** other crop that can be propagated using the above method of propagation.

.....

18. State a reason why a tsetse fly is grouped under insects with incomplete metamorphosis yet it undergoes three stages.

.....

19. Write P.H.C in full.

.....

20. Name the part of a flower produces pollen grains.

.....

21. State the use of heat to black smiths.



.....

22. Identify a reason why pit latrines are constructed 30m away from the water sources.

.....

23. Apart from birds, write **one** other living agent of pollination.

.....

24. Give a reason why sand soil drains water very fast.

.....

25. Name **one** mineral energy resource in the environment.

.....

26. Write the first aid for a near drowned person.

.....

27. The diagram shows a clinical thermometer. Use it to answer questions **27** and **28**.



27. Of what importance is part W on the thermometer above?

.....

28. Name the structures in the human heart that has the same function as part X in the diagram above.

.....

29. Write **one** way of reducing friction on surfaces.

.....

30. Jesca's radio uses 4 dry cells. Calculate the voltage used by the radio.

.....



31. Give the term used to mean the process by which wool is extracted from the sheep's body.

.....

32. Name any **one** hereditary disease of the respiratory system.

.....

33. Give **one** reason why solar energy is considered to be the cleanest source of energy.

.....

34. How does shivering help to regulate the body temperature during cold weather?

.....

35. State what determines the sinking or floating of an object in a liquid.

.....

36. Soda bottles are usually not filled to their full capacity. Why do you think companies do so?

.....

37. Name the structure that protects sea mammals against coldness of the sea water.

.....

38. Name the device used to guard against damage to appliances by too much electric current.

.....

39. The diagram below is of a type of lens. Use it to answer questions 39 and 40.



Complete the diagram by showing the effect of the lens to the beam of light.

40. Besides the above lens, name **one** other type of lens.

.....



SECTION B: 60 MARKS

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

41. a) State **one** reason why grooming finger nails is important to our health.

.....

b) Identify **one** item used to groom finger nails.

.....

c) State the use of the tools below in promoting personal hygiene:

i) Pumice stone:

.....

ii) Cotton swabs:

.....

42. a) Amos a carpenter forgot his nails on a plate stand after making it. He realized this after two days. He checked the nails and observed that there was a reddish brown coating on the nails.

a) Identify the name of the reddish brown coating on the nails.

.....

b) Give **one** condition that made the iron nails gain the reddish brown coating.

.....

c) Mention **two** ways of protecting metals like iron nails from gaining the reddish brown coating.

(i)

(ii)

43. a) The compactness of particles in a stone is 8 grams per cubic centimeter. Its mass is 56 grams. Find the amount of space occupied by the stone. (2 marks)

.....

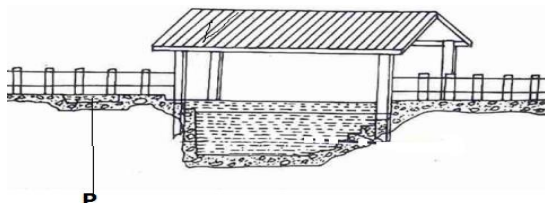
b) Give **two** factors that affect the weight of an object.

(i)

(ii)



44. The diagram below is of a farm structure used in cattle keeping. Use it to answer question 44.



a) Identify the part of the structure labeled with letter P

.....

b) State the use of the part named in 44a) above.

.....

c) Name the type of parasites and **one** example that can be controlled using the structure above.

Type:.....

Example:.....

45. Below is a table about the immunisable diseases, their vaccines and sites.

Complete the table correctly.

Disease	Vaccine	Site
Polio		In the mouth
Whooping cough	DPT vaccine	
Tuberculosis		Right upper arm
.....	Hep B vaccine	left upper thigh

46. (a) Earthworms normally come out of the soil after it has rained. Give a reason why they come out.

.....

(b) State **two** ways in which earthworms are important in the soil.

(i)

(ii)

(c) Give a reason why an earthworm dies when oil is poured on its skin.

.....



47. a) State the meaning of the term reproductive health

.....

.....

b) Write **three** primary sex characteristics in males

(i)

(ii)

48. a) Give the meaning of the term breastfeeding.

.....

b) Give **one** way of keeping the reproductive system in proper working conditions.

.....

c) State **two** advantages of bottle feeding to a baby

(i)

(ii)

49. a) Give **one** reason why light is regarded as a form of energy.

.....

b) Josh was given the following materials to carry out an experiment to prove that light travels in a straight line. 3 cardboards, a string, a wax candle and a table.

Describe how Josh will prove that light travels in a straight line in this experiment.

(3 marks)

.....

.....

.....



50. a) Explain how ploughing downhill causes soil erosion.

(2 marks)

.....

.....

.....

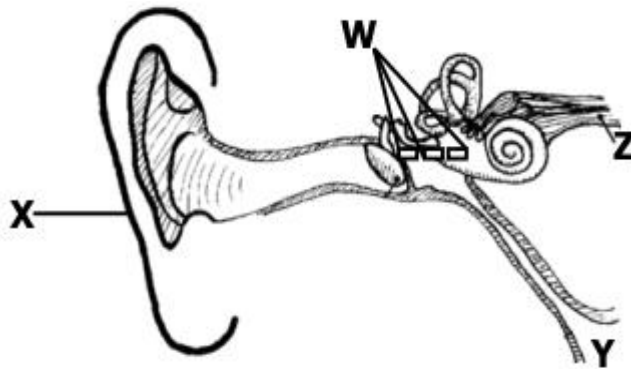
b) Give **one** importance of organisms in the soil.

.....

- c) Name the component of soil that helps to bind its particles together.

.....

51. The diagram shows the human ear. Use it to answer question **51**



- a) Name the structures marked **W**.

.....

- b) Draw an arrow and letter N, label the part on the organ above that has the same function as the halteres of an insect.

- c) State **one** way in which part labeled with letter X is adapted to its function.

.....

- d) Write **one** way of caring for the above organ.

.....

52. Vena cava was playing football with his friend in the compound. His friend eventually banged him with a sharp elbow onto his nose. Immediately blood started coming out from Vena cava's nose.

- a) Identify the injury that Vena cava acquired.

.....

- b) In **one** sentence, state how you would help Vena cava.

.....

- c) Give a reason why you would encourage Vena cava to breathe through the mouth.

.....

- d) Apart from the cause of the injury mentioned, state one other cause of the injury mentioned in a) above.

.....



53. a) Name the intestinal worm that enters the human body by penetrating through bare skin.

.....

- b) Write down **two** substances that intestinal worms feed on in the human body.

(i)

(ii)

- c) Mention any **one** way in which intestinal worms affect the health of an individual.

.....

54. a) Give **two** examples of fungi.

(i)

(ii)

- b) Identify the mode of reproduction common in most fungi

.....

- c) Write **one** way through which fungal diseases spread among people.

.....

55. a) Give the meaning of the term health concerns.

.....

.....

b) Mention any **two** health concerns in your community.

(i)

(ii)

c) State **one** way of addressing the concerns mentioned in 55 b) above.

.....



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