

SHINE STAR EXAMINATIONS

SUPER SET INTEGRATED SCIENCE OFFICIAL MARKING GUIDE 2025.



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SECTION A: 40 MARKS

Questions 1 – 40 carry one mark each

1. Mention any one component of air in the environment.
 - ✓ **Oxygen** **Rare gases**
 - ✓ **Carbon dioxide** **Nitrogen**
2. How can soil erosion be controlled in highland areas?
 - ✓ **Terracing // contour ploughing // strip cropping // alley cropping**
3. Name the type of immunity acquired by a baby through breastfeeding.
 - ✓ **Natural immunity**
4. Apart from Tuberculosis, give one other immunizable disease that shows the same signs and symptoms as those of AIDS patients.
 - ✓ **Measles**

5. Use the illustration below to answer questions 4 and 5.



6. Name the substance labelled Z in the diagram above.

✓ **oxygen**

7. Where does the above process take place in human body?

✓ **Body cells**

8. Give one reason why a tomato farmer mulches his garden in the early stages of rainy weather.

✓ **To prevent rotting of tomato fruits**

Reject: To keep the soil moist since the target is preventing soil particles from spreading over fruits during splash erosion.

9. State any one way in which VIP latrines are important in the prevention of air pollution in the environment.

✓ **Have the vent pipe that directs the bad smell to upper layers of the environment**

10. Mention one way how Joshua's mother can prevent him from acquiring deficiency diseases like kwashiorkor.

✓ **Feeding Joshua on foods rich in proteins.**

Reject:

✓ **Feeding on a balanced diet since the question is specifying kwashiorkor**

✓ **Feeding on proteins since we cannot eat proteins directly but on foods rich in proteins.**

11. How is static electricity produced in the classroom?

✓ **Rubbing the plastic ruler against the hair**

✓ **Rubbing the plastic comb against the hair**

✓ **Rubbing the plastic ruler against the woolen cloth**

✓ **Rubbing balloon in the hair.**

The diagram below shows a lens camera. Study it and answer question 12 and 13.

P



12. Name the part marked P.

✓ **Focusing ring**

13. Mention the part of the human eye that has the same function as the screen of the above camera.

✓ **Retina**

✓ **Fovea**

14. Why should health parades be conducted in schools?

✓ **To check children's teeth**

✓ **To check hygiene of the school uniform**

✓ **To identify children with uncombed hair**

✓ **To check children with some skin diseases**

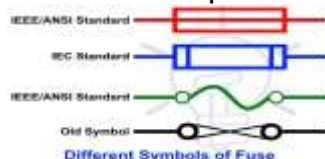
NB: we extract reasons from activities done during the parade.

15. Grace fetched muddy water and left it to settle for 30mins. She then carefully poured the water in another clean container. Identify the method used by Grace to obtain the clean water.

✓ **Decantation**

Reject: filtration since mud settles at the bottom of clean water

16. In the space provided below, draw a symbol of an electric component used to break or complete the circuit.



17. Mention one way how a farmer can best use unwanted plants in his garden.

- ✓ **Using them as mulches when dry**
- ✓ **Using them as organic mulches to produce nutrients**

18. Name the PHC element that helps to provide services to a pregnant mother and her unborn baby.

- ✓ **Maternal and child health**

19. How is the duck billed platypus similar to an Eagle in terms of their reproduction?

- ✓ **Both reproduce by laying eggs/ /undergo internal fertilization**

The diagram below shows the scolex. Study it and use it to answer question 21.



20. Name the worm whose head is called scolex as shown above?

- ✓ **Tapeworm (written as one word)**

21. Mention the physical process that takes place due to heat loss in the water cycle.

- ✓ **condensation**

22. State a reason why vitamins and mineral salts are not digested chemically in the human body.

- ✓ **They are already soluble.**

23. Give any one way in which a fire extinguisher helps to save people's property.

- ✓ **Puts out fire on property incase of an outbreak**

24. State what happens to the inflated balloon left in too much sunshine for a long time?

- ✓ **It bursts.**

25. Give the reason you would give for the condition mentioned above in no 24 above.

✓ **Due to overexpansion of air in the balloon.**

26. State any one condition that favors the breeding of bacteria in the latrine.

✓ **Food**

✓ **Warmth**

Reject : oxygen since not all bacteria need oxygen for respiration(anaerobic bacteria though not to be taught in primary)

27. Which part of a vacuum flask controls heat loss and gain by conduction?

✓ **Cork(made of an insulator)**

28. Name the component of ORS that provides energy to the dehydrated body.

✓ **Sugar**

29. State one characteristic of soil as a renewable resource in the environment.

✓ **It is replaced naturally**

30. Why are plants called primary producers in food chain?

✓ **Make their own food**

31. Mention one condition that may lead to nose bleeding.

✓ **Overblowing of the nose**

✓ **Inhaling dry air**

✓ **Allergy**

✓ **Injury**

32. Give one way of preserving food commonly used by natives.

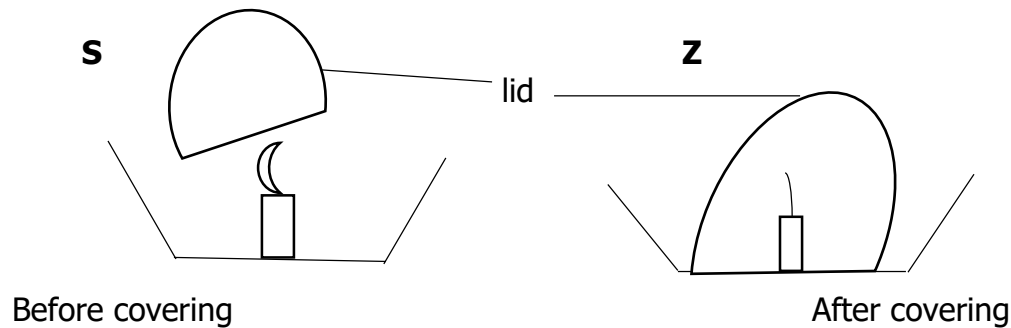
✓ **Smoking**

✓ **Salting**

✓ **Sun drying**

NB: natives are local people

The diagram below was carried out by a P.5 child about uses of parts of air. Use it to answer questions that follow about it.



33. What does the experiment above prove?

- ✓ **Oxygen supports burning**

34. Which reason would you give for the candle going off in **s**?

- ✓ **Limited supply of oxygen**

35. Name one animal process in the environment that promotes global warming.

- ✓ **Respiration. (releases carbon dioxide to the atmosphere that destroys the ozone layer)**

36. Identify the type of energy stored by dry cells as components of an electric circuit.

- ✓ **Chemical energy**

37. What do you understand by the term refraction of light?

- ✓ **Bending of light rays as they travel from one transparent medium to another of different densities.**

38. Give the major reason why farmers harvest crops during dry season.

- ✓ **There is enough sunshine for drying the harvests.**

39. To which body system does the skin belong?

- ✓ **Excretory system**

40. Mention any one wood product used as litter in the coop.

- ✓ **Sawdust**
- ✓ **wood shavings**

SECTION B: 60 MARKS

Questions 41-55 carry four marks each

41. Mr. Musoke is a famous farmer in Akapa village. He grows different crops in his garden as shown in the table below. Use the information correctly to answer the questions that follow it.

Seasons	One	Two	Three
Crop	cabbage Maize Soya beans	beans Sweet potatoes	Bush fallowing Groundnuts

- a) Identify the farming method Mr. Musoke practices in his garden.
✓ **Crop rotation**
- b) Which type of crop does he grow on his farm every season?
✓ **Annual crops**
- c) Give a reason why Mr. Musoke grows the above type of crop on his garden.
✓ **Take short time to be harvested**
✓ **Grow and be harvested within one season**
- d) State any one benefit of practising the above farming method to the soil.
✓ **Improves soil fertility by legumes**
✓ **Allows the land to settle**
✓ **Controls soil erosion.**

42 a). How are communicable diseases different from deficiency diseases?

- ✓ **Communicable diseases spread from an infected person to a health one unlike deficiency diseases**
✓ **Communicable diseases are caused by germs while deficiency diseases are caused by lack of essential nutrients**

(b). Mention any two examples of deficiency diseases caused due to insufficient vitamin nutrients in the diet.

- ✓ **Beriberi** **Night blindness**
✓ **Pellagra** **Scurvy**

(c). Give one way how food taboos affect proper growth of children in poor families.

✓ **Leads to malnutrition**

43. Match each animal in A with the correct to which it belongs in B.

A	B
Skink	Arthropods
Ticks	Worms
Bush baby	Reptiles
Tapeworm	Mammals

- (i) Skink **Reptile**
(ii) Ticks **Arthropods**
(iii) Bush baby **Mammals**
(iv) Tapeworm **Worm**

44. The diagrams below show components of the circulatory system. Use the diagrams below to answer questions that follow them.



a) Identify the blood vessels in the body marked B.

✓ **Veins**

Reject : vein since the question is in plural.

b) State the functional difference between blood vessels A and B.

- ✓ **Vessel A carries oxygenated blood while vessel B carries deoxygenated blood.**
✓ **Vessel A carries blood towards the heart while vessel B carries blood away from the heart.**
✓ **Vessel A carries blood of high pressure while vessel B carries blood of low pressure.**

- c) Mention any one material carried in blood through the blood vessel A.
- ✓ **Oxygen**
 - ✓ **Nutrients (oxygen)**
- d) White blood cells defend the body against disease causing germs, how are the white blood cells adapted their function?
- ✓ **Have an irregular shape**
 - ✓ **Produce antibodies**

45. The table below is about skeletal system. Study and Complete the table below correctly.

Bones	Location	Joint
Neck vertebrae	Neck	<u>pivot</u>
<u>Humerus / scapula</u>	Shoulder	Ball and socket
Humerus/ radius/ulna	<u>elbow</u>	Hinge
Cranium	<u>skull</u>	Suture

46.(a).Give one mechanical role of the stomach during digestion.

- ✓ **Churns food into chyme.**

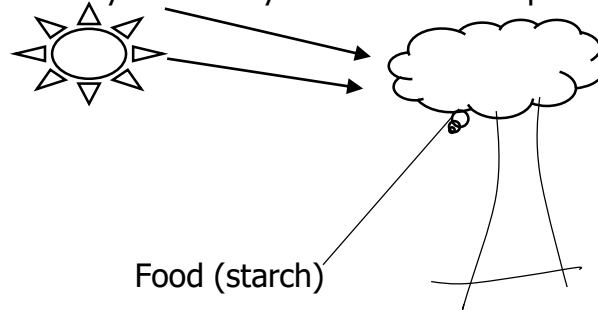
(b). Name the part of the alimentary canal that allows the first chemical digestion of starch to take place.

- ✓ **Mouth**

(c). Mention any two disorders of the digestive system.

- ✓ **Constipation**
- ✓ **Diarrhoea/Diarrhea**
- ✓ **Intestinal obstruction**
- ✓ **Vomiting**
- ✓ **Indigestion**

47. The diagram below is about a certain plant process in the environment. Study it carefully and answer the questions about it.



a) Name the above process in plants.

✓ **Photosynthesis**

b) Why can't the above process take place at night?

✓ **No sunlight at night**

c) How does man benefit from the above plant process during generation of energy in the body?

✓ **Provides oxygen used by man during respiration to provide energy.**

d) How do plants benefit from the above process?

✓ **Source of food to plants**

48a). Identify one way in which HIV/AIDS spreads to people.

✓ **Having unprotected sex with an infected person.**

✓ **Sharing unsterilized sharp materials.**

✓ **Through blood contact incase of fresh cuts and open wounds.**

✓ **Through Mother to Child HIV Transmission(MTCT).**

b). How best can a primary seven child prevent himself from acquiring HIV/AIDS?

✓ **Abstaining from sex before marriage.**

a) Mention one effect of HIV/AIDS to an individual.

✓ **Loss of hope/hopeless**

✓ **Loss of weight**

✓ **Risks of other killer diseases**

b) State one way how you can care for HIV/AIDS patient.

- ✓ **Giving them ARVS in time**
- ✓ **Feeding them on a balanced diet**
- ✓ **Taking them to health centers for further treatment of other diseases**
- ✓ **Giving them courage and counseling**

49 a). Give the meaning of luminous objects?

- ✓ **Objects that produce/emit light on their own .**

(b). Give any two examples of luminous objects.

- ✓ **Sun**
- ✓ **Glowworms**
- ✓ **Fireflies**
- ✓ **lightning**
- ✓ **Burning fuels like charcoal**

(c).Why isn't the moon regarded as a luminous object?

- ✓ **It doesn't emit/produce light on its own.**

50 a). State the main cause of fainting.

- ✓ **Limited supply of oxygen to the brain.**

(b).Why are the legs of a victim who has fainted raised slightly higher than the head level?

- ✓ **To enable the flow of oxygenated blood to the brain.**

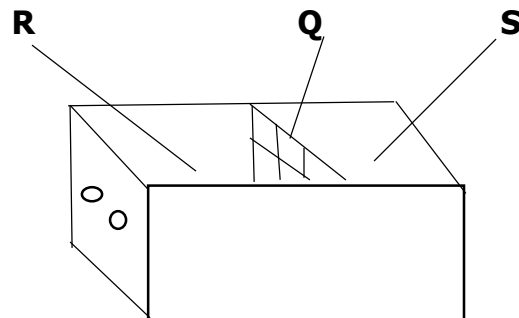
(c).Give one reason why tight clothes are removed from a victim who has fainted.

- ✓ **To allow free air circulation.**

(d).Give the danger of bystanders to the fainted victim.

- ✓ **suffocation**

51. The diagram below shows the internal structure of a modern bee hive. Use it to answer the questions about it.



a) Name the example of modern beehive drawn above.

✓ **Box beehive**

b) Mention any one component of the part labeled S.

✓ **Honey**

c) State one advantage of harvesting honeycombs from the above hive over Kigezi bee hive.

✓ **Honeycombs aren't destroyed unlike in Kigezi**

✓ **Honey in honeycombs harvested is cleaner than in those of Kigezi.**

d) How useful is structure Q in the modern bee hive?

✓ **Prevents the queen bee from mixing eggs with honey.**

52(a). What do you understand by the term demineralization?

✓ **Condition when the body lacks mineral salts**

NB: Dehydration (lack of water)

Demineralization (lack of mineral salts)

(b).Name the component of ORS that provides mineral salts to the body.

✓ **Salts**

(c).How much water is used to prepare ORS locally at your home?

✓ **1 liter of water**

(d).Mention the first step in the preparation of ORS locally at home.

- ✓ **Wash hands with clean water and soap.**

53 a).What name is given the house of domestic rabbits?

- ✓ **Hutch**

(b).Why do some farmers prefer keeping rabbits over cattle?

- ✓ **Rabbits need little space compared to cattle**
- ✓ **Easier to transport rabbits than cattle**
- ✓ **Grow faster than cattle.**
- ✓ **Give birth within a shorter time than cattel.**

(c).Give one example of an imported rabbit from California to Uganda.

- ✓ **Californian**

Reject: California

(d).Mention one disease that affects both poults and kittens.

- ✓ **Coccidiosis**
- ✓ **Pneumonia**

NB: poults are young ones of domestic chicken and turkey.

54.a). Give the meaning of the term waste recycling.

- ✓ **Turning of wastes into useful products.**

(b).Name any two new products made from recycling.

- ✓ **Ball made from old newspapers**
- ✓ **Skipping ropes**
- ✓ **Flower vessels**
- ✓ **Killing cone**

(c). State one use of recycling to the environment

- ✓ **Reduces wastes in the environment**
- ✓ **Promotes proper disposal of wastes**

55. Joan as a P.5 Pupil of a certain school, has studied about properties of air as matter. She had the following steps when carrying out an experiment showing that air exerts pressure. They are in a wrong order ,so you are requested to Re-arrange them correctly.

- a) I turn the container upside down steadily.
- b) The hard paper spends some time without fall due to pressure exerted.
- c) I would pour water in the container.
- d) I cover the container using the hard paper.

a) I would pour water in the container

b) I cover the container with the hard paper

c) I turn the container upside-down steadily

d) The hard paper spends some time without falling due to pressure exerted.