



THE SHINE STAR EXAMINATIONS BOARD

PRE MOCK EXAMINATION

2025

INTEGRATED SCIENCE

*Time Allowed: 2 hours 15 minutes*

Random No.					Personal No.			

Candidate's Name: .....

Candidate's Signature: .....

District ID No.

**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.
3. Answer **all** the questions. **All** the answers to both sections **A** and **B** must be written in the spaces provided.
4. **All** the answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.

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

6. Do not fill anything in the table indicated:

**"FOR EXAMINERS' USE ONLY"** and

boxes inside the question paper.

**Contact us: 0781306601.**

**Turn over**

**SECTION A : 40 MARKS**

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

1. Name one bone that forms the joint which allows free plane movement  
.....

2. Name any one method that can be used to separate miscible liquids  
.....

3. Which class of food should be given to people who carryout quarrying?  
.....

4. How is the pancreas useful during the process of chemical digestion of fats in the human body?  
.....

5. State any factor considered when selecting the type of goat to rear on your farm.  
.....

6. Give any one form of energy that flows from the hot region to a cool region due to temperature difference.  
.....

7. Suggest any one factor you would prevent as a P.7 candidate to promote the quality of the environment.  
.....8.

Which part of an insect plays like that of the lateral line of fish in terms of their function?  
.....

9. How would you identify regular reflection from irregular reflection during experiments about light?  
.....

10. Name the deficiency disease that affects the proper working of the human teeth.  
.....

...



11. Besides scholastic materials, give any other solid matter in your classroom.

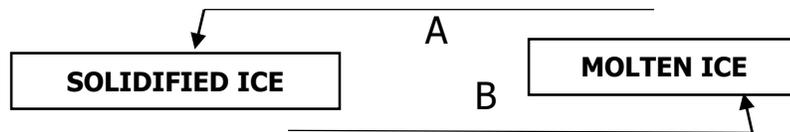
.....  
12. To which group of invertebrates do ticks belong?

.....  
13. Why do some plants shed their leaves during the condition of too much sunshine in the environment?

.....  
14. State what will be observed at the earth during solar eclipse where the moon comes in between the sun and the earth?

.....  
15. State the vaccine administered to defend the body against the immunisable disease that causes stiffness of muscles.

.....  
The illustration below shows effects of heat on states of matter. Study the diagram below and use it to answer the questions that follow.



16. Name the physical process marked A

.....  
17. State any one way how the physical process B is different from the process A in terms of formation.

.....  
18. Give the type of brooding which encourages the mother hen to sit on eggs to provide necessities.

.....  
19. In which one way does crop rotation help in the control of splash erosion in the garden?

20. Suggest any reason why you think high temperatures increase the rate of transpiration in the environment.



.....  
21. Mention any one way how a P.7 candidate may promote the proper use of his/her handkerchief without washing it.

.....  
22. Mention any one material that is removed from blood during blood filtration in the nephrons.

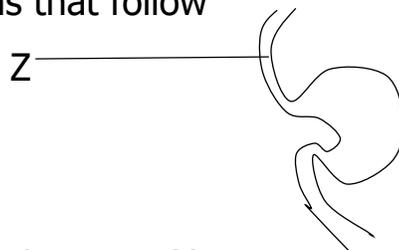
.....  
23. State the feature of clay soil that makes it able to hold water for a long time.

.....  
24. Suggest the way how a game ranger identifies wading birds during their services to tourists in forests.

.....  
25. Write any information collected about housing in the society during health surveys.

.....  
26. Name the state of matter that conducts heat slowest by conduction method.

.....  
The diagram below shows one part of the alimentary canal. use it to answer the questions that follow



27. What do we call the wave like movement of food along the above alimentary canal?

28. Give one major reason you give as to why food is first rolled into a bolus before reaching part Z.

.....

29. State the way how the coiling of the delivery tube in cold flowing water eases distillation process of making alcohol.

.....

30. Besides presence of the clitoris in girls, give any other primary sex characteristic used to distinguish girls from boys.

.....

31. Mention any one way how the use of an electric flat iron conserves plant life in the environment.

.....

32. Explain how a highly populated area encourages the spread of trachoma in case of its outbreak in the community? (2mrks)

.....

.....

33. Anitah lowered a stone and a feather in water using a rope at the same time, state the reason why the stone sank and the feather floated?

.....

.....

34. Apart from the factor mentioned in no.(34)above, mention any other factor that affects objects partially immersed in water.

.....

35. Which condition may develop to a person who has eaten food contaminated by moulds?

.....

36. What do you understand by the term dentition as used in dental analysis?

.....

37. Give the major reason why water is regarded as a universal solvent.

.....

The diagram below is about the process of photosynthesis. use it to answer the questions that follow

Raw materials	Conditions	Products
Carbon dioxide	Sunlight	Starch
Water	Chlorophyll	Oxygen

38. How important is the above process to animals in the environment?

.....

39. Name the pole of the freely suspended bar magnet that is attracted by the true North pole of the Earth.

.....

40. Mention any one precaution of human eyes to keep them strong and in proper working conditions.

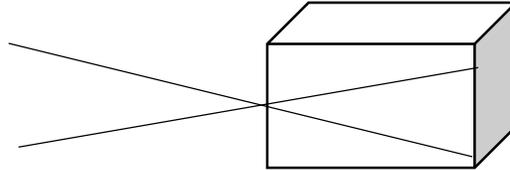
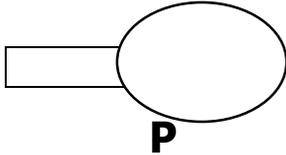
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**SECTION B: 60 MARKS**

Questions 41 – 55 carry four marks each.

41. The diagrams below show optical instruments. Use them to answer the questions that follow



a. Name the optical instruments marked P & Q

(i) P.....

(ii) Q.....

b. Give any one quality of images formed by optical instrument Q.

.....  
c. Mention one way how light reflection is important to some groups of people.

.....  
42.(a) mention the two factors that should be followed when starting up a school woodlot.

(i).....

(ii).....

(b). State any one use of the woodlot to the following people at school

(i) Chef: .....

(ii) Pupils: .....

43(a). What do you understand by the term weathering of rocks as used in soil formation?

.....  
.....

(b). give any 2 factors that increase the rate of weathering of rocks in the environment.

(i).....

(ii).....

(c). How is the overuse of agrochemicals affect the quality of soil formed in the environment?



.....  
44(a).Name the cattle disease that is detected by the help of an instrument with black surface to trap abnormal changes in milk.

.....  
(b).How do farmers benefit from the lactometer as one of the major components of farm tools?

.....  
(c).Mention any two ways cattle farmers make proper use of the tsetse fly traps to maintain their working conditions on the farm.

(i).....

(ii).....

45(a). State two dangers of having shelter under tall trees when it is drizzling.

(i).....

(ii).....

(b). Which advice would you give to the school going children who walk without rubber shoes during drizzling?

.....

46. The table below shows steps of laundry. Use it to answer the questions that follow

Soaking	Removes excess water
Rinsing	Promotes drying
Ironing	Removes soapy water from clothes
Wringing	Softens dirt in clothes

- (i) soaking.....
- (ii) rinsing.....
- (iii) ironing.....
- (iv) wringing.....

47. (a) Name the two sources of natural fibers in the environment

- (i).....
- (ii).....

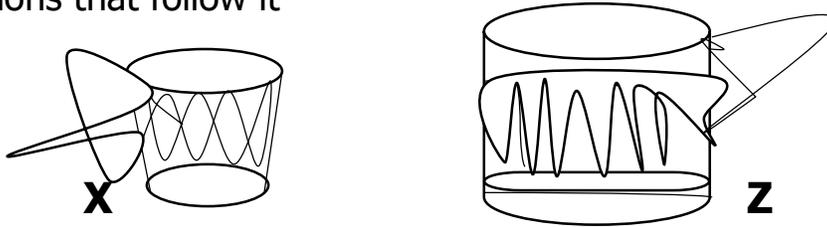
(b). What name is given to the act of removing the overgrown fleece from animals mainly sheep?

.....

(c). State any one way how the keeping of angora goats help in the development of textile industry.

.....

48. The diagram below shows an musical instrument.use it to answer the questions that follow it



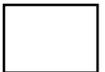
(a). Name the musical instrument drawn above

(b). State the end between X and Z that produces the higher pitched sound.

(c). How is the pitch of the above musical instruments varied?

(d). Mention one way how the above musical instrument is important to social life in the community.

49(a). What do you understand by the term technology as used in project work of man?



(b). Give any two sources of raw materials used in basic technology used by children during a PE lesson.

(i).....

(ii).....

(c). State one use of basic technology to school children.

.....

50. You are provided with **pineapple fruits, sieve ,water in the cup and some sugar.**

Explain how you would produce simple alcohol by fermentation process in the classroom?

(i).....

(ii).....

(iii).....

(iv).....

51. Pollination is the transfer of pollen from the anther to the stigma.

(a).What name is given to things that help in the transfer of pollen from the anther to the stigma?

.....

(b).Give any two nonliving factors that help in the transfer of pollen from the anther to the stigma.

(i).....

(ii).....

(c). State what happens to the stigma when pollen lands on it during the process pollination

.....

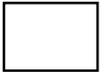
52(a). In the space below, draw and the item used to promote oral hygiene by removing the food stuck on teeth.

.....

(b). Give any 2 ways how children may promote proper use of the above drawn item to keep it in good working conditions.

(i).....

(ii).....



53(a).State one reason why you would group a ballpoint pen under the solid state of matter.

.....

(b).Name the state of matter that transfers heat energy slower by convection.

.....

(c).Give the reason why solids conduct heat energy fastest by conduction.

.....

(d).Mention one activity done by the help of radiation in our daily life.

.....

54(a).Give the meaning of the term thermometric liquids as used to measure temperature.

.....

(b).Name the thermometer that uses two thermometric liquids to measure temperature at once.

.....

(c). Outline the two thermometric liquids commonly used in thermometers.

(i).....

(ii).....

55. Anita as P.4 pupil was carrying out an experiment showing aquatic life. Her experiment set like:

Container B had: some fish, water and open on top.

Container Q had: some fish, water but with a layer of oil on top.

(a). Which container allows the survival of fish for a long time?

.....

(b).State the reason for your answer in (a) above

.....

(c).Name any one activity that should be done to minimize the problem affecting fish in container Q.

.....

(d).Mention any other animal that maybe used by Anita instead of using fish in her experiment.

.....

