



GLOBE EDUCATIONAL CONSULTANCY (GEC)-KAMPALA

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PRE-PLE SET II EXAMINATION 2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.:

Random Number	EMIS No.

Candidate's Name:

Candidate's Signature:

Candidate's School:

District Name:

Read the following instructions carefully:

1. This paper is comprised of two sections: **A** and **B**. Section **A** has **40** questions (40 marks) and Section **B** has **15** questions (60 marks).
2. Answer **ALL** questions in both sections A and B.
3. **All** answers to **both** sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written in **Blue** or **Black** ball point **pen** or **ink**. Only diagrams should be drawn in pencil.
5. Do not write anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and in the 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		

REVISION TIPS

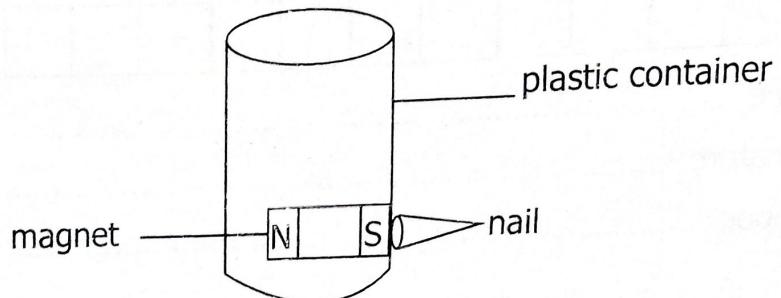
- ♦ In groups of two, practise spellings of scientific terms.
- ♦ Do some diagram work during your free time.



Turn Over

SECTION A: 40 MARKS

1. Name the human body organ which is affected by hepatitis B.
2. State any one danger of uncontrolled bush burning in the environment.
3. Mention the element of weather that is used during winnowing.
4. Why do the surfaces of molar teeth have ridges and cusps on top?
5. The diagram below shows a property of magnets. Study and use it to answer question.

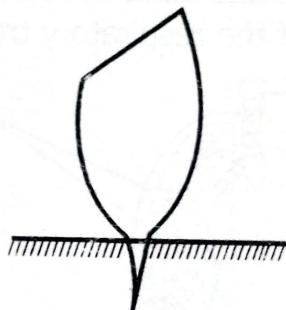


Which property of magnets is shown in the diagram above?

6. Give any one activity done by crop farmers to prevent their crops from drying.
7. How is carbon dioxide useful during photosynthesis?
8. State any one condition that can lead mothers to wean early.
9. Why should a person who has taken poison be given plenty of fluids to drink?
10. Mention any one biological method used to control the spread of malaria at home.
11. In which way is proper air circulation maintained in a VIP latrine?
12. State what happens to the pollen grains when they land on the stigma.

13. Apart from getting sunlight energy, why else do plants with weak stems climb others.
14. Give any one method used by the government when conducting health surveys.
15. Mention any one danger of taking an under dose by a patient.
16. State any one protective function of the human skin.
17. The diagram below is of a part of the respiratory tract. Study and use it to answer questions 17 and 18.
-
- By what process does air enter part Z?
18. State what happens to air when it reaches part X during inhalation?
19. What is the importance of regular emptying of dustbins at home?
20. Give any one way in which a school child can promote immunization in his/her community.
21. State any one reason why the udder and teats should be washed with warm water before milking.
22. In which way is the Eustachian tube useful in the human ear?

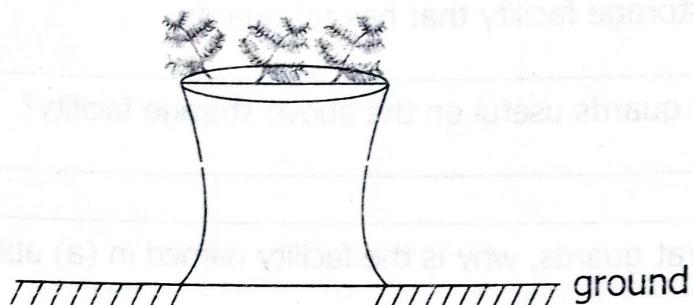
23. Name the deficiency disease caused by lack of iodine in one's diet.
-
24. Give one reason why essential drugs should be kept in a cool dry place.
-
25. How does the cork of a vacuum flask prevent heat loss?
-
26. State any one life skill that P.7 girls should develop to prevent early pregnancies.
-
27. The diagram below shows a type of tooth in humans. Study and use it to answer question 27.



Write down any one health problem a person who lost all the type of teeth in the diagram is likely to face.

-
28. To which class of simple machines would you place an egg beater?
-
29. Give any one way in which people re-use plastics at home.
-
30. Why is warmth important during seed germination?
-
31. Mention any one root tuber which is propagated by use of seeds.
-
32. Why are windows on a living house left open during day time?
-
33. How is having enough sleep and rest important to human health?
-

34. The diagram below shows one of the proper methods of harvesting trees in agro-forestry. Study and use it to answer the questions 34 and 35 that follow.



Name the method of harvesting trees shown above.

35. State one way in which crops benefit from trees when they are grown together.

36. Give any one reason why a person suffering from hookworm infestations is most likely to suffer from anaemia.

37. Name one permanent method of family planning in females.

38. Why are the images formed by a pinhole camera inverted?

39. Name the digestive juice which is produced by the ileum.

40. In which one way is soaking of clothes important at a laundry?

SECTION B: 60 MARKS

41. a) Apart from compost manure, mention any two other examples of natural fertilizers.

i) _____ ii) _____

- b) State any one advantage of using natural fertilizers.

c) Why is it not advisable to walk over the heap while making compost manure?

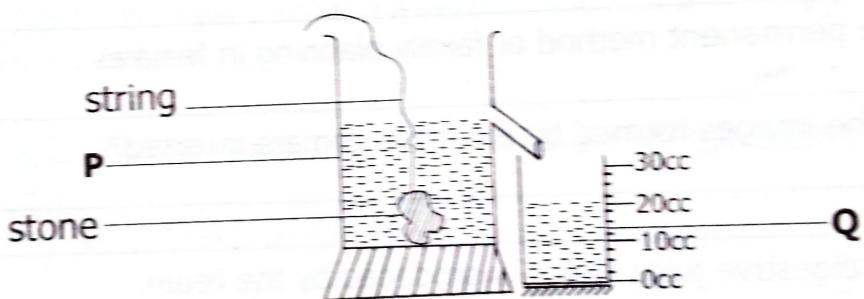
42. a) Name one storage facility that has rat guards.

b) How are rat guards useful on the above storage facility?

c) Apart from rat guards, why is the facility named in (a) above good for crop storage?

d) Mention one pest that attacks crops in the above storage facility apart from rats.

43. The experiment below was done by a P.5 class. Study and use it to answer the questions that follow.



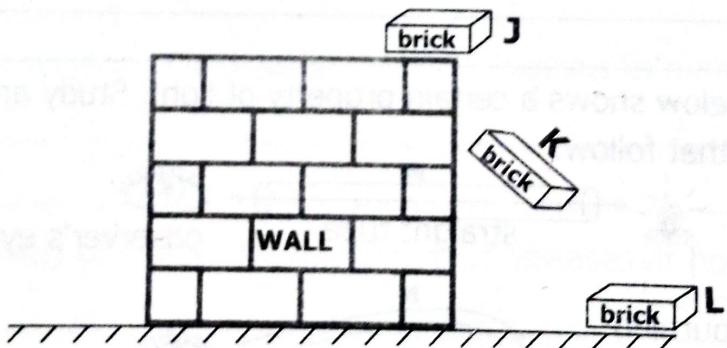
a) When is such a method of finding volume used?

b) Why did some water from container P pour in container Q?

c) If a stone has a density of 2g/cc, find its mass.

44. a) State the use of each of the following tissues within the human body:
- tendon.
 - ligament.
- b) How is the synovial fluid similar to cartilage in terms of function at the joint?
- c) Give one way in which joints are important in the human body.
45. a) Write down any one disease which causes fever to human beings.
- b) Give any two signs and symptoms of fever and convulsions in human beings.
- i)
- ii)
- c) Write any one way in which fever and convulsions in human beings can be controlled.

46. The diagram below shows bricks falling from a wall. Use it to answer the questions that follow.



- a) Name the type of energy possessed by the brick at point J.
- b) Apart from sound, mention one other form of energy produced by the falling block.
- c) Which force enables the brick to move from point J to point L?

d) Give a reason why the brick is said to possess kinetic energy.

47. a) Name the region of the teeth where the sensitive part of the tooth is found.

b) How is the enamel useful to a tooth?

c) How do the unbrushed remains of food in the teeth cause teeth decay?

d) Mention any one disorder of the human teeth.

48. a) Give any two principles of Primary Health Care.

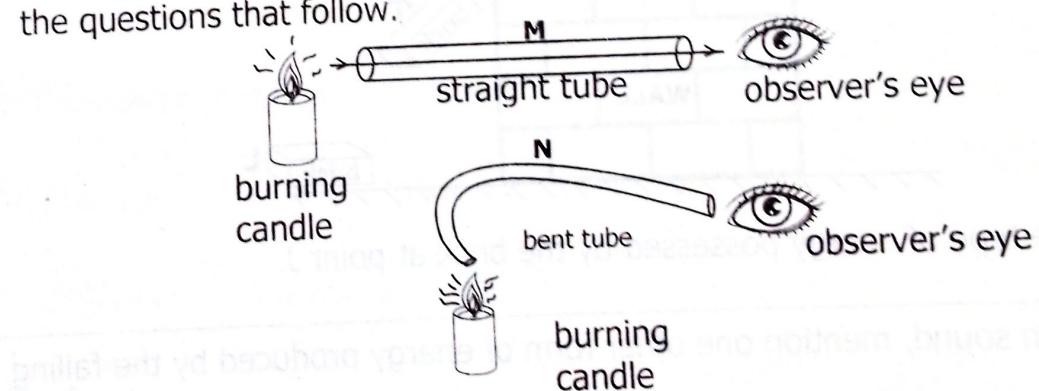
i)

ii)

b) State any one responsibility of a community in health promotion.

c) Why is it important for family members to attend seminars organized by the community about health?

49. The diagram below shows a certain property of light. Study and use it to answer the questions that follow.



a) Which property of light is shown in the diagram?

b) In which diagram is the observer unable to see light from the burning candle?

c) Give a reason for your answer in (b) above.

d) Apart from the property above, write one other property of light.

50. a) What is a short circuit?

b) State any two possible causes of short circuits.

i) _____

ii) _____

c) Give any one way of preventing short circuits at home.

51. a) Name the vector that spreads yellow fever to humans.

b) State any two ways in which vectors spread diseases to humans.

i) _____

ii) _____

c) Give any one way of controlling the spread of diseases at home.

52. a) To which group of arthropods do each of the following belong:

i) ticks? _____

ii) lobsters? _____

b) State any two diseases spread by ticks.

i) _____ ii) _____

53. a) Name the blood vessel that receives blood with less oxygen from all parts of the body and transports it to the heart.

b) Give any two ways of increasing the volume of blood in a circulation in the human body.

i) _____

ii) _____

c) State any one way in which HIV/AIDS affects blood.

54. a) Apart from wind, mention two other agents of seed dispersal.

i) _____ ii) _____

b) State any two characters of seeds dispersed by wind.

i) _____

ii) _____

55. Match the weather instruments in list A to their uses in list B.

List A

a) Anemometer

b) Wind sock

c) Wind vane

d) Barometer

List B

measures atmospheric pressure

shows the direction of wind

measure strength of wind

measures wind speed

a) Anemometer _____

b) Wind sock _____

c) Wind vane _____

d) Barometer _____

END