



ARUA CITY ACADEMIC BOARD (ACAB)

P.L.E MOCK EXAMINATIONS 2023 INTEGRATED SCIENCE

Time Allowed: 2Hours 15 Minutes

Theme: Improving performance through Assessments in the post Covid-19 is our responsibility.

RANDOM NUMBER						PERSONAL NUMBER		

CANDIDATE NAME: _____

CANDIDATE'S SIGNATURE: _____

DISTRICT ID NO.:

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Read the following instructions carefully

1. This paper has Two Sections A and B.
2. Section A, has 40 short answer questions (40marks) and Section B has 15 questions (60marks).
3. Answer All the questions. All answers to both questions A and B must be written in the spaces provided.
4. ALL answers must be written using a blue or black ball – point Pen or fountain Pen. Diagrams should be drawn in pencil.
5. Unnecessary changes of work leads to loss of marks.
6. Any handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the box indicated “FOR EXAMINERS’ USE ONLY” and those inside the questions paper.

FOR EXAMINERS' USE ONLY		
	Marks	EXRS' NO.
01-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

Turn Over



SECTION A: 40MARKS

1. Name the part of a plant that allows transpiration to take place.

2. State one reason why water is referred to as a universal solvent?

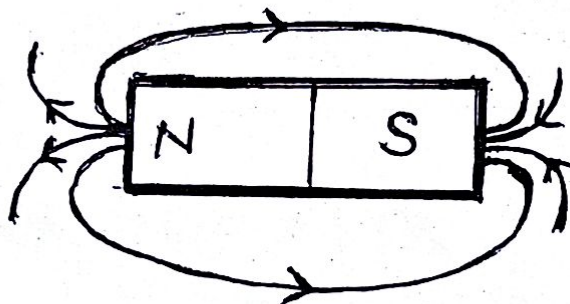
3. State any one functional difference between arteries and veins.

4. Which element of weather promotes evaporation?

5. Mention any one life skill a P.6 child uses in promotion of proper growth of bones.

6. Peter keeps cattle that take long to mature and produce little milk and less meat. How can he improve the quality of his cattle?

The diagram below shows magnetic field lines.



7. What is a magnetic field?

8. Give any one property of magnetic field lines.

9. Adima fell off a mango tree and broke his arm. As a P.7 pupil, what first aid will you give to Adima?

10. In what one way is mulching dangerous to a crop farmer?

11. A woman carries a baby of 60N through a distance of 9metres. Calculate the work done.

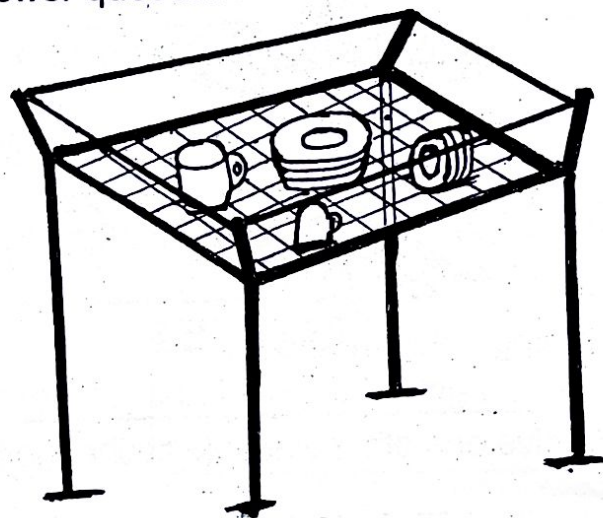
12. Write down one common characteristic between birds and reptiles.

13. How does a passion fruit benefit from a cassia plant growing in the same place?

14. State difference in units for measuring Mass and weight.

15. Identify any one factor that affects the pitch of sound.

The diagram below shows one of the items used in the promotion of sanitation at home. Use it to answer questions 16 and 17.



16. Identify the above item

17. How useful is the above item at home?

18. State any one way of conserving wildlife in our environment

19. How are joints adapted to a friction free movement?

20. Name any one immunisable disease immunize against using Pentavalence vaccine.

21. How do worker bees fan the bee hive?

22. Name the accident which is a result of exposing children to the essential drugs.

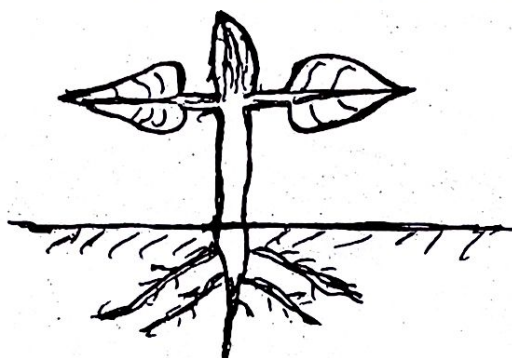
23. What is the function of sebaceous glands in human skin?

24. Why should the floor of rabbit house be cemented?

25. Name any one of the optical instruments.

26. Apart from producing ova, give one other function of ovaries in female reproductive system.

The diagram below shows change in the environment. Use it to answer questions 27 and 28.



27. Identify the type of change shown above.

28. Apart from the above, give one other example of change in our environment.

29. State the use of scare crows in maize garden.

30. What is the behaviour of water at 0° Celsius?

31. Of what advantage is budgeting to a family?

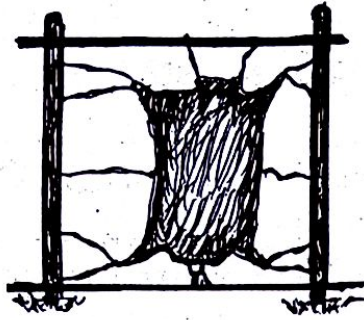
32. How many physical stages are in life cycle of a tsetse fly?

33. State the use of pleural fluid between ribs and lungs

34. Identify the part of a mushroom that produces and keeps spores.

35. Why should we cover food after cooking?

The diagram below shows one of the ways of preserving cattle hides. Use it to answer questions 36 and 37.



36. Identify the method of hide preservation shown above.

37. Name one component of environment being used to preserve the hide above.

38. What is the use of a gong in an electric bell?

39. State any one property of clay soil.

40. Write down any one example of opaque materials

SECTION B

41.(a) Give the mode of reproduction in the following non-flowering plants.

(i) conifers _____

(ii) ferns _____

(b) Mention anyone example of conifers.

(c) State one economic importance of conifers.

42.(a) What are invertebrates?

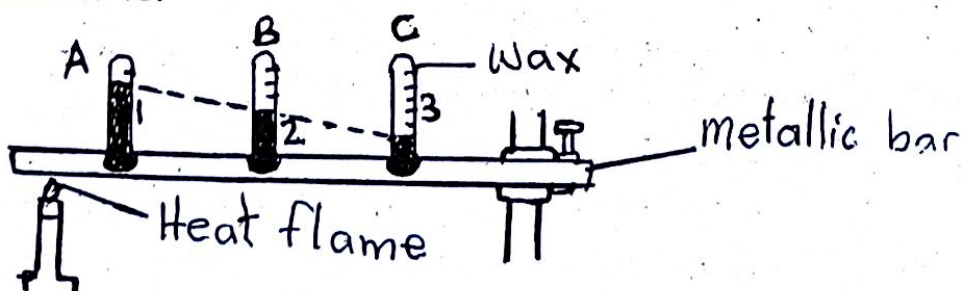
(b) Apart from arachnids give anyone group of arthropods.

(c) State any two characteristic of arthropods.

(i) _____

(ii) _____

Below is a diagram that illustrates heat transfer in solids. Study it and use it to answer question 43.



43. (a) How does heat travel from point A to point C?

(b) Which of the wax above will melt last?

(c) Give a reason for your answer in question (43b).

(d) Apart from the method of heat transfer illustrated in the diagram, mention any one other method of heat transfer.

44. (a) Explain briefly what is meant by food chain.

Study the food chain below and answer the questions that follow.

GRASS → GOAT → LION → BACTERIA

(b) Which of the animals in the chain is;

(i) primary consumer? _____

(ii) secondary consumer? _____

(c) What is the role of bacteria in the food chain?

45. (a) State the meaning of the word "echo"

(b) Mention the importance of echo to the following:

(i) A bat

(ii) A pilot

(c) How are echoes reduced in recording studios.

46. (a) Name the female sterile bee in the hive.

(b) Give any one importance of bees to a crop farmer.

(c) Mention any two products obtained from bee wax.

(i) _____

(ii) _____

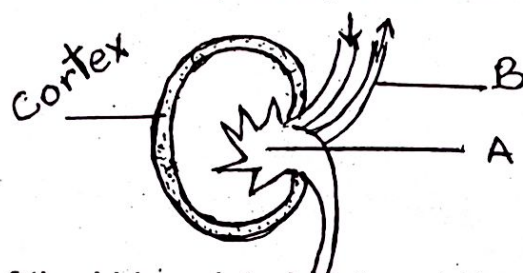


47. Match the lists below of food values and their deficiency diseases.

<u>FOOD VALUES</u>	<u>DEFICIENCY DISEASES</u>
Proteins	Anaemia
Vitamin B2	Goitre
Iron	kwashiorkor
Iodine	Pellagra
Food values	Deficiency diseases

- (a) proteins _____
- (b) Vitamin B2 _____
- (c) iron _____
- (d) Iodine _____

The diagram below is of a human kidney. Study it and use it to answer question 48.



48.(a) Name the parts of the kidney labeled A and B.

- (i) A _____ (ii) B _____

(b) Give the function of cortex.

(c) Mention any one way of keeping the kidney healthy.

49. (a) Name the type of fungi that reproduces by means of budding.

(b) Give any one importance of fungi to humans.

(c) Mention any one example of harmful fungi.

(d) State any one disease in humans caused by fungi.

50.(a) Mention any one example of translucent materials.

(b) Give any two similarities between images formed in a human eye and that of lens camera.

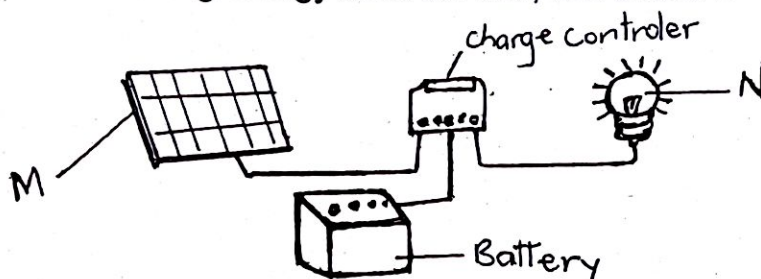
- (i) _____
- (ii) _____

(c) Which part of the human eye transmit light messages to the brain?



- 51.(a) Mention any two secondary sexual characteristics in both boys and girls
- (i) _____
- (ii) _____
- (b) Name the male reproductive cell
- _____
- (c) Define fertilization.
- _____

Below is a method of harvesting energy from the sun, use it to answer question 52.



52. (a) Name the component labeled M _____
- (b) State the energy change that takes place in the component N.
- _____
- (c) Give any two advantages of using the energy from the sun.
- (i) _____
- (ii) _____
- 53.(a) State any one instrument used for measuring volume of an irregular object.
- _____
- (b) Calculate the volume of an object whose mass is 48g and density is 6g/cc
- _____
54. (a) State any two processes used by national water and sewerage cooperation (NWSC) in treating and testing water before being supplied to the consumer.
- (i) _____
- (ii) _____
- (b) Apart from filtration, identify any one way of preparing water for use.
- _____
- (c) Write down any one example of water contact disease.
- _____
- 55.(a) Write down any two activities done to promote oral and dental health
- (i) _____
- (ii) _____
- (b) Write any two elements of primary health care.
- (i) _____
- (ii) _____

END