

THE ARIAL EXAMINATIONS®

P.7 SET I TERM II 2023

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minute

Index No.

School Number					Candidate's Number				

NAME: _____

SCHOOL: _____ class _____

Read the following instructions carefully

1. This paper is made up of two sections: A and B.
2. Section A has 40 questions (40 marks).
3. Section B has 15 questions (60 marks).
4. Answer ALL questions in both sections A and B.
5. All answers must be written in spaces provided using blue or black pens or Ink. Only diagrams should be done in pencil.
6. Unnecessary crossing of answers will lead to loss of marks.
7. Do not fill anything in boxes indicated for examiners' Use only.

FOR EXAMINERS' USE ONLY

page	Marks	Initials
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Total		

Approved by



.....
Team Leader

Turn Over

Subject teacher's Comment to the learner

SECTION A (40 MARKS)

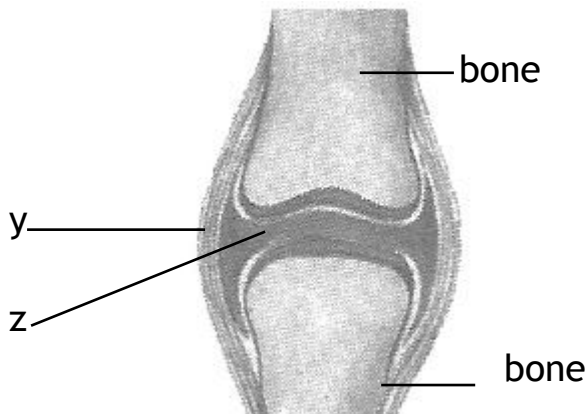
1. Give any one raw material for photosynthesis.

2. Name one example of a living resource in the environment.

3. Write down any one element of Primary Health Care.

4. How are rat guards important to a granary?

The diagram below is of a knee joint. Use it to answer question 5 and 6.



5. Name the part marked with Y in the diagram above.

6. State the main role of fluid marked Z.

7. Which type of weather helps a farmer in winnowing?

8. Which air tights equipment is used in production of biogas?

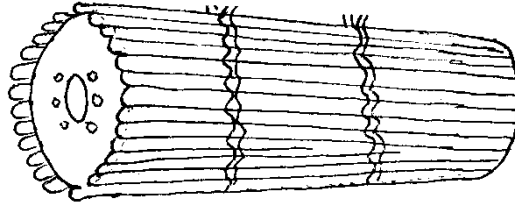
9. State the component of air fixed in the soil by legume plants.

10. Of what value is prescribing medical drugs to patients?

11. What causes a breeze?

12. Write down any one way of preparing water for drinking.

13. The diagram below shows a type of a hive. Study it and answer the questions 14 and 15.



14. Name the hive shown below?

15. Why are bee keepers discouraged from using the above hive?

16. Name the group of animals which breast feed their young ones.

17. Mention the organ in human body that produces urine and filters blood.

18. How does bush burning cause soil erosion?

19. Why is brushing teeth a good healthy practice?

20. Mention the type of change that takes place when charcoal burns into ash.

21. Name the worm that affects people who eat half or uncooked beef.

22. Write PIASCY in full.

23. Apart from a nuclear family, name other one type of a family in our society.

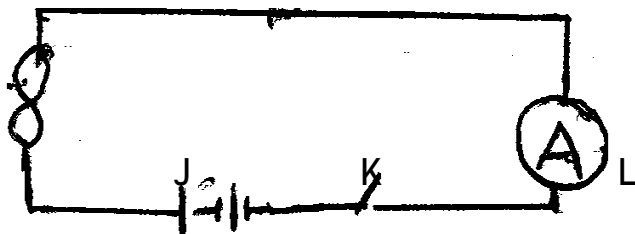
24. Name the process that enables rain drops to be formed from clouds.

25. Give any one form of a mechanical energy.

26. Identify any one digestive disorder caused by dehydration.

27. Apart from decantation, give another way of making water clean.

The diagram below shows an electric circuit, Use it to answer questions 28 and 29.



28. Name the part labelled K.

29. State the energy change that takes place in J when the circuit is complete.

30. Name the germ that causes AIDS.

31. How can we recover salt dissolved in water?

32. In which part of an onion is food stored?

33. Give the functional difference between veins and arteries.

34. Name the part of a bean seed that has a similar function as endosperm of a maize grain.

35. Give the difference between weight and mass.

36. How do you find the volume of an irregular object?

37. Apart from athlete's foot, write down one other fungal disease that affects man.

38. Give the similarity between burns and scalds.

39. Write down root tuber crop which has a tap root system.

40. Convert 45° to degree Fahrenheit.

SECTION B (60 marks)

41. (a) Name the vaccine used to immunize children against tuberculosis.

(b) Give the reason why the measles vaccine is administered at 9 months but not at birth?

(c) Why is immunization an important health activity among children?

(d) State any other way children's immunity is boosted.

42. (a) Animals on a farm should be numbered for easy identification. Mention any two ways how this is done.

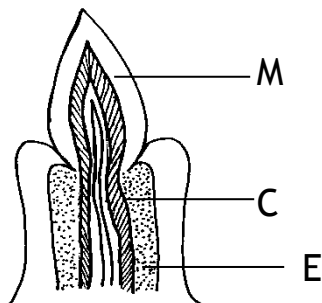
(i) _____

(ii) _____

(b) Why should animals be castrated on a farm?

(c) State any one way how castration is done.

43. The diagram below shows the human tooth. Use it to answer questions that follow.



(a) Name the parts marked with;

(i) C _____

(ii) E_____

(b) Which mineral salt helps in making part M harder?

(c) State the main function of the type of tooth in the diagram above?

44. (a) Write down any two components of blood.

(i)_____

(ii)_____

(b) Name the pigment in blood that helps to carry oxygen in blood.

(c) Mention any one way of increasing blood in the human body.

45. (a) What is an echo?

(b) In which way are echoes dangerous to people?

(c) Cleophas was standing 16.3 metres away from his mother who called him by hitting the drum. How long did it take Cleophas to hear the drum?

46. (a) State the end product of each of the following.

(i) Proteins

(ii) Carbohydrates

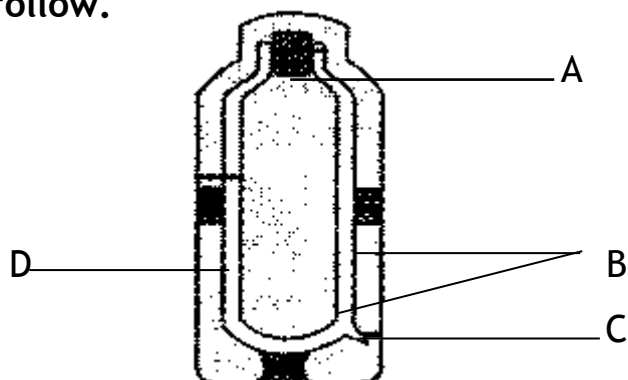
(iii) Fats

(b) How is a liver important during the digestion of food in the human body?

47. (a) Write down any two characteristics of insect pollinated flowers.

- (i) _____
- (ii) _____
- (b) Give any two examples of plants that undergo cross pollination.
- (i) _____
- (ii) _____

48. The diagram below is a part of a thermos flask. Use it to answer questions that follow.



- (a) Name the part marked C and D.
- _____
- (b) State the functions of the part marked A and B.
- (i) A _____
- (ii) B _____
49. (a) State the difference between keeping poultry and poultry.
- _____
- _____
- (b) Name any two types of poultry.
- (i) _____
- (ii) _____
- (c) Write any one bacterial disease which attacks both poultry and human beings.
- _____
50. (a) Give one example of useful bacteria in the environment.
- _____
- (b) In which way do bacteria reproduce?
- _____
- (c) Give any one harmful effect of bacteria to humans.
- _____
- (d) Mention one way of controlling the harmful effect of bacteria.
- _____

51. Match the following parts of the reproductive system in list A with their function in list B.

List A

oviduct
testis
epididymis
ovary

List B

produce sperm
produces ova
is where fertilization occurs
stores manufactured sperms.

- (i) oviduct _____
(ii) testis _____
(iii) epididymis _____
(iv) ovary _____

52. (a) Name the chemical substance in tobacco which causes addiction in people.

(b) State one factor that leads to smoking among adolescents.

(c) Mention any one effect of smoking to a pregnant woman.

(d) Name one disease of lungs caused by smoking.

53. (a) Give any two diseases that commonly affect rabbits.

- (i) _____
(ii) _____

(b) Write down two practices in which rabbit diseases can be prevented without using drugs.

- (i) _____
(ii) _____

54. (a) Give any two methods of making magnets.

- (i) _____
(ii) _____

(b) Write any two ways in which a magnet can be demagnetized.

- (i) _____
(ii) _____

55. (a) Name two groups of living things.

- (i) _____
(ii) _____

(b) Give two reasons why a hen is a living thing?

- (i) _____
(ii) _____

END