



VICTORY STEP EDUCATION SERVICES

PRE PRIMARY LEAVING EXAMINATIONS

2022

INTEGRATED SCIENCE SET THREE

Time allowed: 2 hours 30 minutes

Index number					Personal No			

Candidate's name:

Candidate's signature:

District name:

School name:

Read the following instructions carefully

1. This paper has two sections **A** and **B**
2. Section **A** has 20 questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer all questions: All answers to both Sections **A** and **B** must be written in the Space provided.
5. All answers must be written using a blue or Black ball point pen or ink but not pencil.
6. Any handwriting that cannot easily be read May lead to loss of marks.
7. Unnecessary alteration of work may lead to Loss of marks.
8. Do not write anything in the box with

EXAMINER'S USE ONLY

FOR EXAMINER'S USE ONLY

Qn. No	MARK	EXR'S NO
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A.

1. Name one living natural source of light.

2. Give the main product got from merino sheep.

3. Which sexually transmitted disease causes blindness in newly born babies?

4. Why is the trachea able to withstand the pressure as air passes through it?

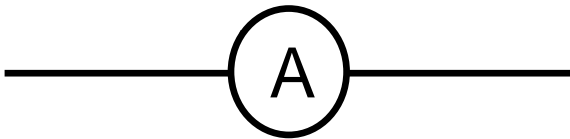
5. Give a reason why water drains through sand soil easily?

6. Name the germ that causes trachoma.

7. Which intestinal worms can enter our bodies through eating poorly cooked beef or pork?

8. Why are people with ordinary latrines encouraged to smoke their latrines?

9. State the uses of the electric symbol shown below.



10. Which viral disease in cattle can be controlled by imposing quarantine?

11. Which class of food is first digested in the duodenum?

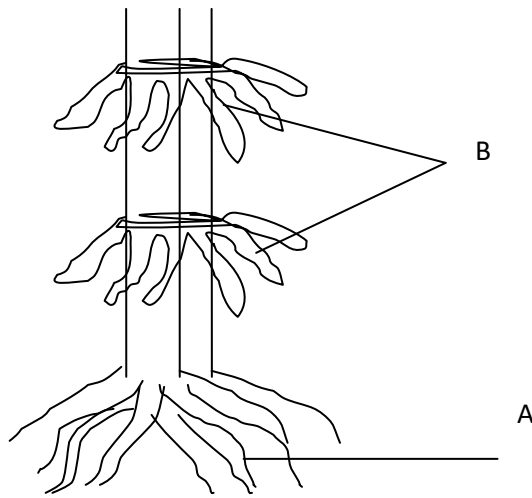
12. Why is the rain gauge put 15cm above the ground level?

13. How is litter useful in deep litter system?

14. Name the fungi that makes bread go bad

15. Which scale gives the normal temperature of a person as 98.6°

Use the diagram below to answer questions 16 and 17.



16. Name part A.

17. Give one reason why do plants like maize develop such roots at that stage.

18. Which group of cold blooded vertebrates does a snake belong?

19. Which element of PHC enables mothers to get antenatal care?

20. Which force holds water droplets on glass?

21. How can soil benefits from plants.

22. State one way heat transfer by radiation is important to people.

23. Identify any one characteristic of flowers pollinated by animals.

24. In which way is a burn similar to a scald in the way they are caused?

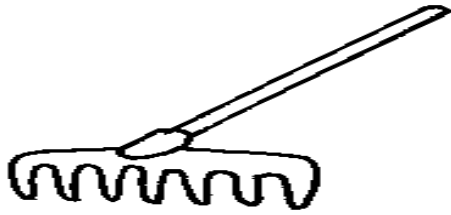
25. Why is a cockroach regarded as an arthropod?

26. In the space below draw a diagram showing property of a magnet that enables pilot to tell direction.

27. How is rotational grazing useful to the soil?

28. What is the immediate result of fertilisation in both plants and animals?

29. Name the garden tool shown below.



30. Name one plant process that requires the use of nitrogen gas.

31. How is decomposition of dead matter useful in the environment?

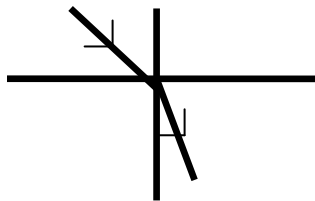
32. How does de-beaking control egg eating among layers

33. Mention the importance of the silvered double walls of the thermos flask.

34. Which type of root system is a characteristic of dicotyledonous plants?

35. Give one way in which dangers of strong wind can be managed at home or school.

36. Why does the light ray moving from air to water bend towards the normal as shown in the diagram below?



37. Mention the main product got from ancona breed of chicken.

38. State one effect of drug abuse to young people.

39. Name the enzyme that coagulates milk proteins in the stomach.

40. Why do people tend to hear more clearly at night than during day time?

SECTION B.

41. Mention any two ways our bodies gain immunity.
(i) _____
(ii) _____
- b) Name the germ that can attack and destroy the immune system in the body.

- c) Give the best way an adult person can improve on the body immunity

42. Give one example of each of the types of mammals

(i) Pouched mammals _____

(ii) Primates _____

- b) How are marine mammals able to stay in cold conditions under water?

- c) What characteristic makes mammals different from all other vertebrates?

43. Mention two non- living renewable resources in the environment.

(i) _____

(ii) _____

- b) Write down one way of conserving plants in the environment.

- c) Why should resources be conserved in our environment.

44. Use the table below to answer questions about it.

A	B	C
beans	cypress	mosses
peas	cedar	ferns
maize	fir	liverworts

- a) What general name is given to plants in B and C?

- b) How are plants in A similar to plants in B in terms of reproduction.

- c) In which way are plants in A different from plants in B and C?

- d) Give one use of plants in B to people.

45. Name the type of simple machines people use for splitting, cutting or piercing.

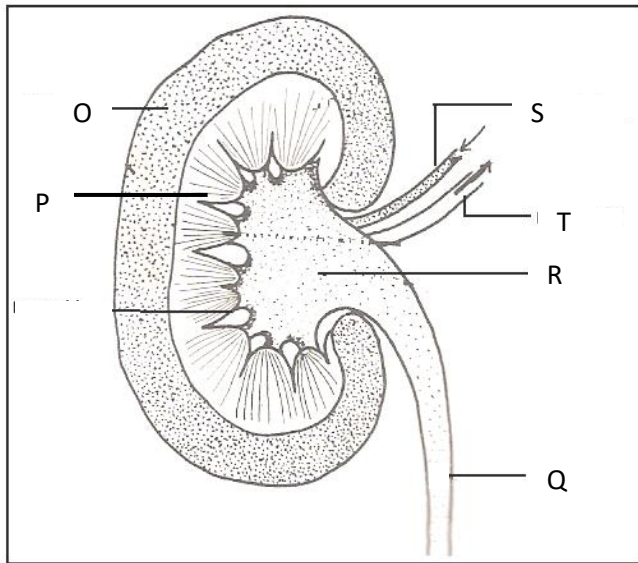
- b) Give two examples of the type of machines you have named in "a" above

(i) _____

(ii) _____

c) Which force enables those machines to cut or split objects easily.

46. Below is the structure of the human kidney.
Use it to answer questions that follow.



a) Name the parts marked P and R

i) P

ii) R

b) Which process occurs in part O

c) Give the difference between blood carried by vessel S and T.

47. Write down any two causes of soil exhaustion.

(i) _____

(ii) _____

b) Besides manuring, how else can a farmer improve on soil fertility.

c) Name one example of soil pollutant.

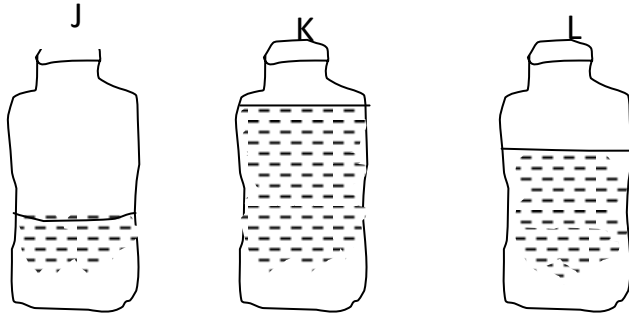
48. Name the biological changes that;

(i) Help living things to multiply

(ii) Help living things to increase in size

49. In which way are the following elements of first aid kit important?

- i) Splints _____
- ii) Arm sling _____
- b) Give two reasons why we give first aid to casualties.
- (i) _____
- (ii) _____
50. Study the diagram below and use it to answer questions that follow.



- a) Which bottle will produce the highest pitch?
- b) Give a reason for your answer in "a" above.
- c) What will happen to the sound of bottle L if the water in it is replaced with milk?
- d) State one factor that affects the pitch of sound.
51. State two adaptations of item to food absorption.
- (i) _____
- (ii) _____
- b) Which process enables the digested food to be absorbed into the blood stream?
- c) Why is the absorbed food taken to the liver before it is circulated to all body parts?

52. Match the vectors below and the germs they spread.

Vectors		Germs
i)	Housefly	Trypanasoma
ii)	Snail	Ochocerca volvulus
iii)	Tsetse fly	vibro cholera
iv)	Black fly	schistomas

- i) House fly _____
- ii) Snail _____
- iii) Tsetse fly _____
- iv) Black fly _____

53. Give the meaning of the word **seed dispersal**?

b) Mention one agents of seed dispersal.

c) Give one advantage of seed dispersal to plants.

d) In which way can seed dispersal be bad to the crop farmer?

54. Give one reason why farmers keep cattle

b) Why do most farmers prefer keeping exotic breeds of cattle to local breeds?

c) State one characteristic of beef breeds of cattle

d) Mention one example of a cattle disease which has the same signs as of those in ebola.

55. Why do animals move from one place to another?

b) What does the fish use for movement?

c) How does the snail protect itself?
