



THE SPECTRUM EXAMINATIONS HUB

Beginning of term two 2025

P.7 Integrated science

Time Allowed: 2 hours 15 minutes

Index number

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NAME: _____ STREAM _____

SCHOOL _____

Read the following instructions carefully:

1. This paper has 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. All the work for both sections A and B must be shown in the spaces provided.
5. All work must be done using a blue or blackball point pen or ink. Any work done in pencil will NOT be marked except drawings and diagram.
6. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill anything in the table indicated; "For examiners' use only" and the boxes inside the question paper.

**FOR EXAMINERS'
USE
ONLY**

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

Turn over

SECTION A: (40 MARKS)

- 1- What is meant by the term “solvent?”

- 2- Which environmental hazard can result from irresponsible dumping of polythene papers?

- 3- State one reason why a ventilator is placed at a higher level than a window.

- 4- How does regular brushing of teeth help in the prevention of tooth decay?

The diagram below shows bottles of soda. Use it to answer questions 5 and 6.



- 5- Why is the space marked **P** left in each bottle of soda as shown above.

- 6- Which food value is obtained from taking soda?

- 7- What happens to the human lungs when one breathes in?

- 8- How do earthworms help in soil aeration?

- 9- In which way can a poultry farmer easily identify a bad egg from the good ones?

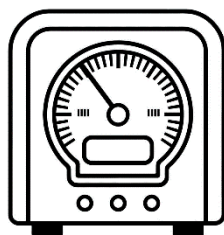
- 10- How is a latrine important in the prevention of diarrhoeal diseases?

- 11- Mention the immunisable disease which affects the muscular system.

- 12- Which chemical substance in tobacco readily combines with hemoglobin?

- 13- How are mosquitoes able to spread diseases?

- 14- Name the electric equipment drawn below.



- 15- What happens to a coin when placed in water?

- 16- Give any one effect of the rotation of the earth.

- 17- What advice would you give to Akello who wants to determine the amount of rainfall received in his area?

- 18- Name one secondary sex change that takes place in only girls.

- 19- How can dehydration be controlled in children below the age of 5?

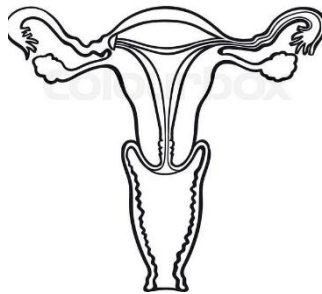
- 20- Write down any one characteristic of chemical changes.

- 21- Which part of the skeleton protects the reproductive organs?

22- How does a vent pipe help to reduce bad smell in a VIP latrine?

23- In which one way can a person increase the volume of blood in the body?

24- Name the fungal disease that affects the organ below.



25- Name the type of movable joint found in the wrists.

26- Which other mineral helps in the proper growth of bones and the teeth apart from calcium?

27- How does an HIV positive mother prevent infection to her baby after birth?

28- Mention any one cause of short circuits.

29- Why is it a bad practice to share a house with domestic animals?

30- In which way is drug prescription important to patients?

31- Which part of a fish has a similar function as the stomata on a plant?

32- State the reason why distilled water is not recommended for drinking?

33- Mention any one advantage of using natural fertilizers over artificial ones.

The diagram below shows a foot of a bird. Use it to answer the questions that follow.



34- Name part marked **X** on the diagram above.

35- What kind of food does a bird with the above foot feed on?

36- Why do farmers who keep local breeds of cattle carry out cross breeding?

37- What type of skeleton does a fish have?

38- Name the part of cassava that produces carbohydrates to people.

39- Give any one physical characteristic of a cereal crop.

40- In which one way do farmers care for honey bees?

SECTION B: 60 MARKS

41- (a) Write two ways in which men in our community may become vulnerable.

(i) _____

(ii) _____

(b) State two ways of caring for men when they are in a vulnerable state.

(i) _____

(ii) _____

42- (a) Give two characteristics of reptiles as a group of vertebrates.

(i) _____

(ii) _____

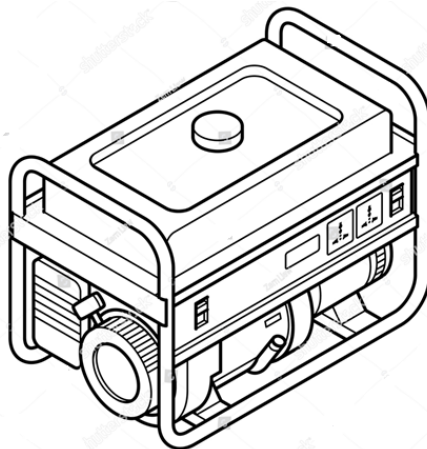
(b) How do the following animals protect themselves from enemies?

(i) a tortoise _____

(ii) a chameleon _____

43- **The diagram below shows one of the devices related to electricity.**

Study and use it to answer the questions that follow.



(a) How does the above device produce electricity?

(b) Give any two examples of fuels used in the above device.

(i) _____

(ii) _____

(c) How is a magnet important in the above device?

44- (a) What do you understand by each of the following terms?

(i) drug abuse

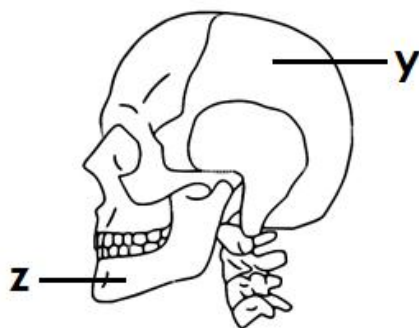
(ii) drug misuse

(b) Give any one way in which the body can be affected by each of the following.

(i) drug misuse

(iii) drug misuse

45- **The diagram below shows part of the human skeleton. Use it to answer the questions that follow.**



(a) Name the part marked **Y**.

(b) Give any one body organ protected by the above part of the skeleton.

(c) State any one viral disease of the skeleton.

(d) In which one way can a person keep the skeletal-muscular system in proper working condition?

46- (a) Define the term seed dispersal.

(b) Give any one method of seed dispersal.

(c) In which one way is seed dispersal important to plants?

(d) How is seed dispersal disadvantageous in the environment?

47- (a) What form of energy causes evaporation?

(b) State any one way in which evaporation is useful in our daily life.

(d) Mention any two reasons why mercury is used in a clinical thermometer.

(i) _____

(ii) _____

48- Name any two drugs of dependence commonly abused by people.

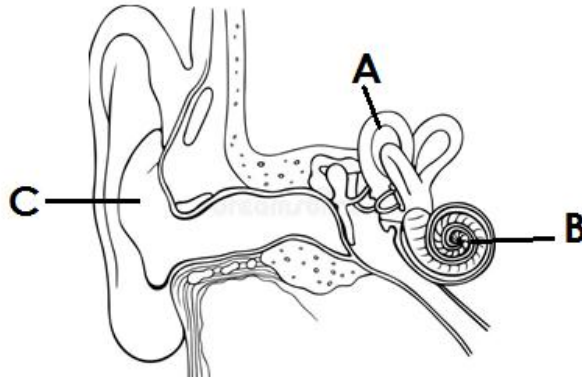
(i) _____

(ii) _____

(b) Mention any one danger of drugs of dependence to an individual.

(c) Suggest one way school children can avoid the temptation of drug dependency.

- 49- **The diagram below shows the human ear. Use it to answer the questions that follow .**



(a) Name the parts marked **A** and **B**.

(i) **A** _____ (ii) **B** _____

(b) Which part of the ear amplifies sound vibrations?

(c) Write down any other function of the ear besides hearing.

- 50- (a) Name any two science oriented clubs which can be formed at school level.

(i) _____

(ii) _____

(b) Mention any two benefits of having science oriented clubs in schools?

(i) _____

(ii) _____

- 51- (a) To which body system does the heart belong?

(b) How is the heart an important organ in the body?

(c) What blood vessel transports blood from the lungs to the heart?

(d) How important are valves to the heart?

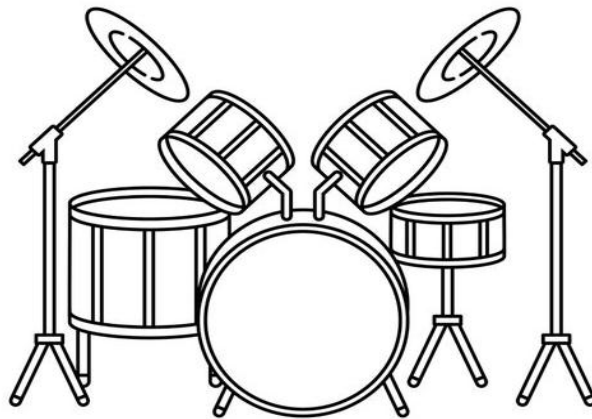
52- (a) Name any one type of fracture.

(b) State the importance of splints to a person with a fracture.

(c) How is a bandage important during the giving of first aid to a person with fracture?

(d) How does an accident affect the human body?

53- **Use the diagram below to answer the questions that follow.**



(a) How does the above set of musical instruments produce sound?

(b) State any two ways in which stored sound can be useful to people.

(i) _____

(ii) _____

(c) Why can't sound travel in a vacuum?

54- (a) Which bone joins the elbow and shoulder?

(b) Give one example of each of the following;

(i) involuntary muscle_____

(ii) voluntary muscle_____

(c) Write down any one use of muscles in the body.

55- (a) Mention any one example of an intestinal worm.

(b) State any two substances intestinal worms feed on in the body.

(i)_____ (ii)_____

(c) Mention any one way of controlling intestinal worms.

(ii)_____

END