



UNITED TEACHERS' EDUCATION BUREAU  
MOCK EXAMINATION

2023

INTEGRATED SCIENCE

Time Allowed : 2 Hours 15 minutes

Random No.						Personal No.		

Candidate's Name.....

Candidate's Signature.....

District ID No. 

--	--	--	--

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has 11 pages altogether.
3. Answer **all** questions. **All** answers to both sections **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 Ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss** of marks.
6. Do **not** fill anything in the table indicated:  
**"FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

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

## SECTION A: 40 MARKS

Questions 1 to 40 carry **one** mark each.

1. Name any **one** viral childhood immunisable disease in children.
2. State the type of animal parasites controlled by dipping animals.
3. Mention **one** accident where a kiss of life is applied as first aid.
4. State the main characteristic which makes a duckbilled platypus to be grouped under mammals.
5. How is a moth able to locate a flower at night?
6. Mention any **one** device which changes electric energy to mechanical energy.
7. How do pollen grains reach the ovules in the ovary for fertilization?
8. Name the digestive disorder caused by dehydration.

The diagram below shows a mother cooking in a kitchen. Study and use it to answer questions 9 and 10.

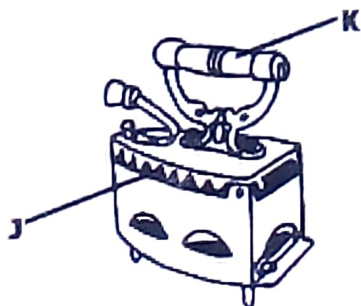


9. Name any **one** fuel being used by the mother in the above diagram.
10. Which accident is being controlled by the mother as she holds the saucepan using a piece of paper?



11. Apart from removing wastes, state **one** other function of the human kidney.  
.....
12. Why do veins in the human body have valves?  
.....
13. How useful is a measuring cylinder to a child using displacement method in class?  
.....
14. Apart from having root nodules on their roots, give **one** other reason why beans are grouped under legumes.  
.....
15. Give any **one** protective function of the human skeleton.  
.....
16. How useful is stagnant water to a mosquito.  
.....
17. Give **one** way in which plant leaves are adapted to photosynthesis.  
.....
18. Give any **one** cause of weathering of rocks.  
.....
19. Apart from preventing access, give **one** other way a treated mosquito net controls mosquitoes.  
.....

*The diagram below shows an ironing box. Use it to answer questions 20 and 21.*



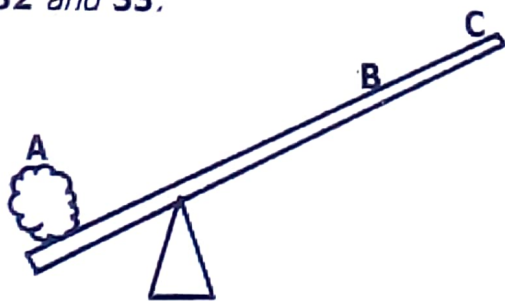
20. Why is part marked K made of wood?  
.....

21. Which part of a house works in the similar way as part marked J?  
.....



22. Apart from friction, name **one** other force that opposes sinking of objects in water.
23. How is the reproduction in a whale different from that of a tilapia?
24. Give any **one** effect of wetland drainage to the environment.
25. Why is it difficult to use a burdizzo to castrate boars?
26. Apart from cooling the body, give **one** other importance of sweating to human beings.
27. Apart from a granary, name **one** other structure on a farm used as a store for grains.
28. Give any **one** method used to make a permanent magnet.
29. Write any **one** disadvantage of chemical changes in the environment.
30. State any **one** sign and symptom of bilharziasis in humans.
31. Why do most farmers in Uganda keep Toggenburg goats?

*The diagram below shows a crow bar. Study and use it to answer the questions 32 and 33.*



32. Which of the two positions **B** and **C** requires more effort to overcome the load **A**?

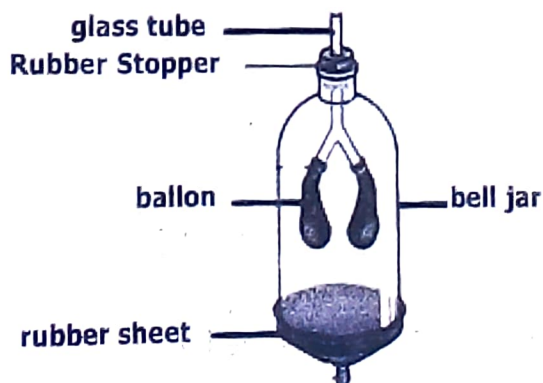
33. Show on the diagram with an arrow **E**, the direction of effort used to overcome load **A**.
34. Name **one** disease that affects the stomach because of alcoholism.
35. Give **one** way in which the circulatory system benefit from muscular skeletal system.
36. How is sorting of clothes useful to a person cleaning clothes?
37. State the property of a magnet that enables a pilot to find direction.
38. Give any **one** importance of proper waste disposal in the environment.
39. What stage of development of a housefly is useful to people?
40. Give any **one** form of mechanical energy.



### SECTION B: 60 MARKS

(Questions 41 to 55 carry four marks each)

41. The diagram below shows a model of one of the body systems. Study and use it to answer questions that follow.



- (a) Name the human body system represented in the diagram above.

- (b) What does each of the following materials represent on the body system you have named above.
- (i) Glass tube.....
- (ii) rubber sheet.....
- (c) Why do the balloons expand when the rubber sheet is pulled downward?
- .....

42. The table below shows blood vessels of the heart and their functions. Fill in the table correctly.

Blood vessels	Functions
(i).....	Carries deoxygenated blood from all body parts to the heart.
Pulmonary artery	(ii).....
(iii) .....	Carries oxygenated blood from the lungs to the heart.
Aorta	(iv).....

43. (a) Give any **two** characteristics of a chemical change.

- (i) .....
- (ii) .....

- (b) Write any **two** examples of a physical change involved in rain formation.

- (i) .....
- (ii) .....



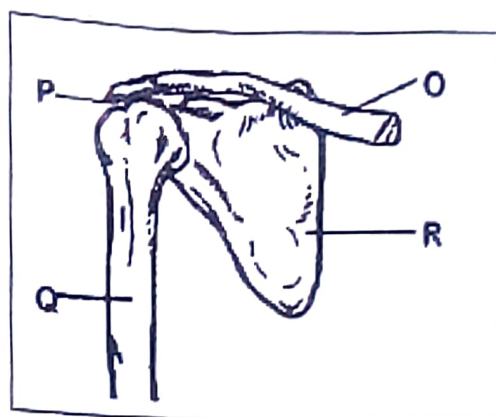
44. (a) Which poultry vice can be controlled by debeaking?

- (b) Give any **two** causes of the poultry vice named in (a) above.

- (i) .....
- (ii) .....

- (c) Apart from debeaking, state any **one** other way of controlling the poultry vice named in (a) above.

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



- (a) Name the bones labeled **Q** and **R** above.

- (i) **Q**.....  
 (ii) **R**.....

- (b) State the type of movable joint found at part **P**.

- (c) How is joint at **P** different from the hinge joint in terms of movement.

46. (a) Apart from mastitis, state any **two** other bacterial diseases of cattle.

- (i) .....  
 (ii) .....

- (b) Give any **two** signs which shows that an animal is suffering from mastitis.

- (i) .....  
 (ii) .....



47. (a) Give any **two** factors that lead to drug dependency in the community.

- (i) .....  
 (ii) .....



(b) State any **one** effects of drug abuse to the community.

(c) Why are people always advised to avoid bad peer group?

48. (a) State any **one** information collected using demography.

(i) .....

(ii) .....

(b) How is the information given on demography above collected?

(c) Give any **two** reasons why the government collects information on demography.

(i) .....

(ii) .....

49. (a) Apart from compost manure, name any **one** other example of natural manure.

(b) How useful is each of the following materials when making compost manure?

(i) Ash

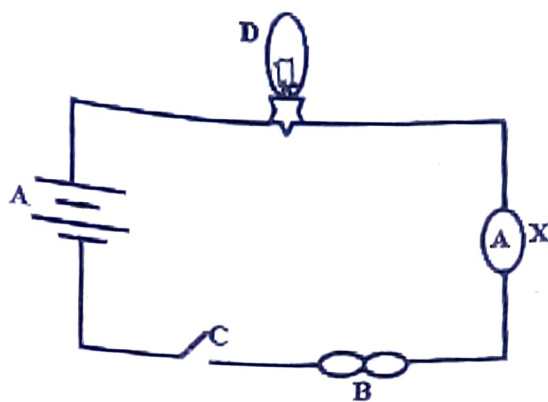
(ii) Water

(c) Name any **one** method used by crop farmers to make compost manure.





50. The diagram below shows an electric circuit. Use it to answer questions that follow.



- (a) Calculate the voltage at A.

(02 marks)

- (b) Give the similarity between part labeled B and C in function.

- (c) What energy change takes place in part D when the circuit is complete?

51. In the table below, part X shows name of vaccines and part Y shows the diseases immunized against.

Part X: Name of vaccine	Part Y: Diseases immunized against
Human Papilloma Virus (HPV)	Haemophilus Influenza B
BCG vaccine	Pertussis
DPT vaccine	Tuberculosis
Hib Vaccine	Cervical cancer

Match correctly the name of the vaccine to the diseases immunized against in the spaces provided below.

- (a) Human papilloma virus (HPV).....
- (b) BCG vaccine.....
- (c) DPT vaccine .....
- (d) Hib Vaccine .....

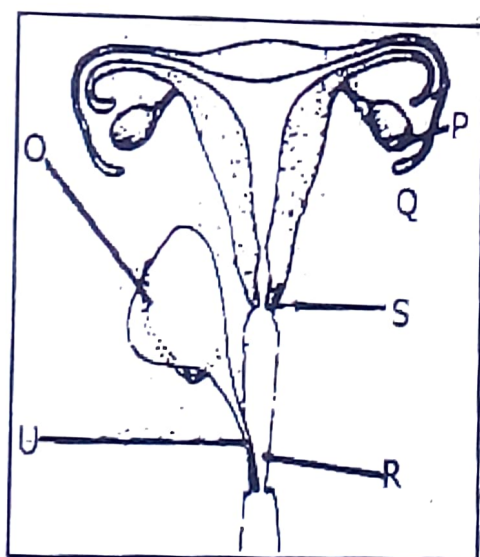
52. The table below shows food stuffs eaten by people in one of the homes in Lira District. Study and use it to answer the questions that follow.

Food stuff A	Food stuff B	Food stuff C	Food stuff D
Cassava	Fish	Oranges	Cassava, fish and oranges

- (a) Give any **one** other class of food that the family should include in their diet above.
- (b) Why is a builder who is a member of the above family encouraged to feed on cassava?
- (c) Which food stuff from the above table should a family feed on to prevent children from kwashiorkor?
- (d) How does the above family benefit from eating the food stuff **D**?



53. The diagram below is of a female reproductive system of a woman. Study and use it to answer questions that follow.



- (a) Name the parts marked **P** and **R** in the diagram above.
- (i) **P**
- (ii) **R**

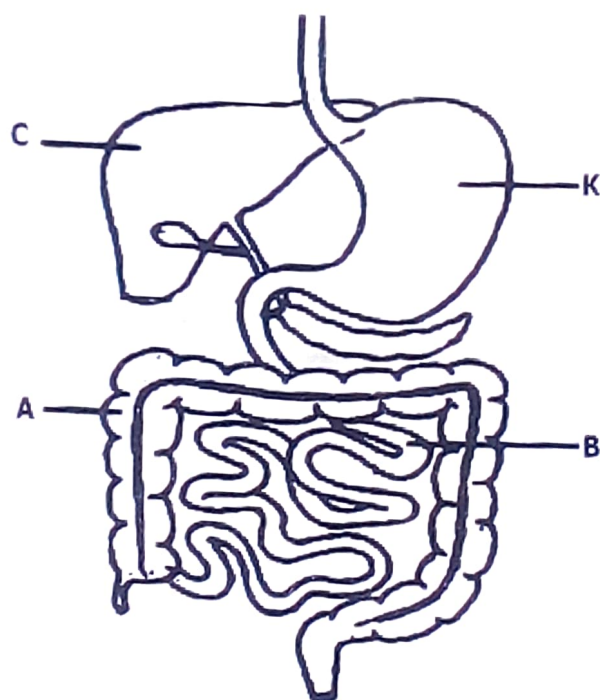
(b) Give any **one** function of part marked **P**.

(c) On the above diagram, label the uterus using letter **Q**.

54. In four sentences, write the steps that can be followed to recover salt that has been mixed with sand.

- (i) .....
- (ii) .....
- (iii) .....
- (iv) .....

55. The diagram below shows part of the digestive system. Study and use it to answer questions that follow.



(a) Name part marked **C** above.

.....

(b) State **one** important process which takes place in part marked **K** above.

(c) Give the function of part mark **B** in the diagram above.

(b) State any **one** way of caring for the system in the diagram above.

**END**

