



**STANDARD HIGH SCHOOL – ZZANA  
LINKED SCHOOLS EXAMINATION PROGRAMME**

**PRE-PRIMARY LEAVING EXAMINATION  
INTEGRATED SCIENCE  
TIME: 2 HOURS 15 MINUTES**

Index No.											
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Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

District :.....

**FOR  
EXAMINER'S  
USE ONLY**

**Read the following instructions carefully:**

1. This paper has two Section A and B.
2. Answer **all** questions. All answers to both Sections A and B must be written in the spaces provided.
3. All answers must be written using a blue or black ball-point pen or ink. Diagrams should be drawn in pencil.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead 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 boxes indicated "For Examiners' Use Only" and those inside the question paper.

Qn. No.	Marks	Examiner's No.
1 – 9		
10 – 17		
18 – 25		
26 – 35		
36 – 41		
42 – 43		
44 – 45		
46 – 48		
49 – 50		
51 – 52		
53 – 54		
55		
<b>TOTAL</b>		

*Turn Over*

## SECTION A.

1. Name the type of skeleton possessed by humans.

.....

2. To which group of flowering Plants are cereals?

.....

3. Give one example of a fungus apart from moulds.

.....

4. Name one enzyme found in pancreatic juice.

.....

5. State one danger of not brushing your teeth every after a meal.

.....

6. Why is copper called a good conductor of electricity?

.....

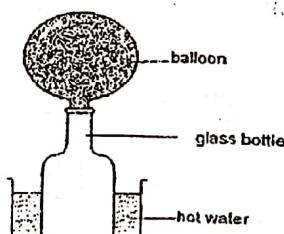
7. Give one way of increasing the pitch of a stringed instrument.

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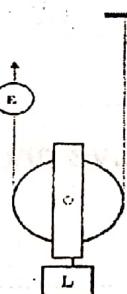
8. Why is chlorophyll important in the process of photosynthesis?

.....

9. What causes the balloon in the diagram bellow to expand?



10. Give one example of a stem tuber.
11. Apart from trapping dust, give another function of wax to the human ear.
12. How is the cutting of trees for charcoal dangerous to the environment?
13. Give one poultry vice controlled by de-beaking.
14. What condition in babies is shown by sunken soft spot on the head?
15. How does the pulley system below make work easy?



16. How is boiling of water important to human life?
17. Name one instrument at home that operates by the help of an electro magnet.

18. How is the reproduction of yeast different from that of other fungi?
19. Apart from being organs of respiration, how else are the lungs useful in the body?
20. Name one activity that can help to reduce the spread of malaria in our communities.
21. Why does a piece of stone sink in water yet a feather floats on water?
22. Give the difference between a urinary bladder and a gall bladder.
23. Apart from keeping soil moisture, give another reason for mulching.
24. What is the use of synovial fluid at a joint?
25. State any one component of oral rehydration solution.

Use the diagram below of a head of bird to answer questions 26 and 27.



26. Name the food for the above bird.....
27. How is the above bird adapted to the above food?  
.....
28. Give one reason why vitamins and mineral salts do not need to be digested.  
.....
29. State any one practice that reduces soil erosion in hilly areas.  
.....
30. Give one effect of drug abuse to an individual?  
.....
31. Why should garden tools be kept in dry places?  
.....
32. Which part of a living house allows stale air out?  
.....
33. How are valves important in the human heart?  
.....
34. Why should you advise school children always to wash their hands after visiting a toilet?  
.....
35. How is reflected sound useful to a bat?  
.....

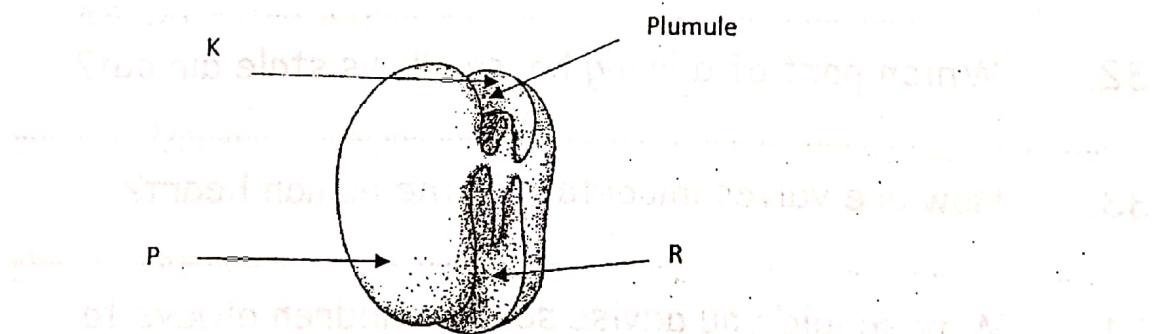
36. Give one advantage of breast milk to babies.
- .....
37. Name the vaccine used to immunize Tuberculosis.
- .....
38. Give one way health education can be done at school.
- .....
39. Name the state of matter is illustrated below.



40. Give a reason why the sun is an energy resource?
- .....

## SECTION B

41. The diagram below shows a germinating seed. Use it to answer questions.



- a) Name parts labelled

R.....

b) What is the function of the plumule?

c) To which group of seeds is the above seed?

d) State any one condition that enables the above seed to germinate.

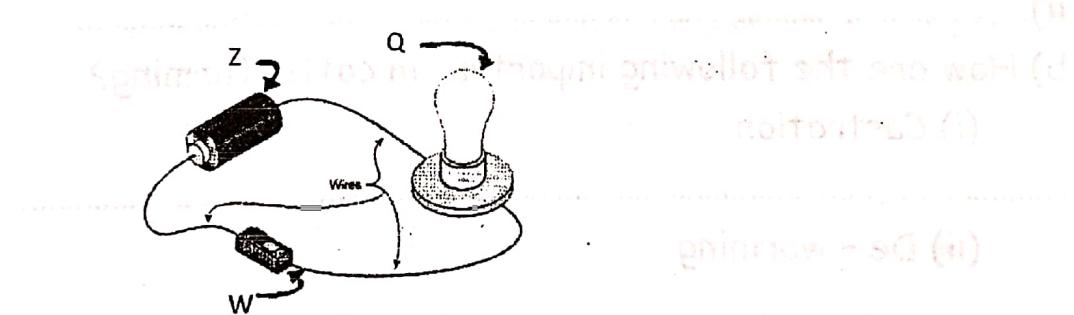
42. a) A part from refrigeration, give two other methods of preserving fish.

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

b) Give two causes of fish extinction.

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

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



a) Name parts marked Q and Z.

Q.....

Z.....

b) State the energy change that takes place in Z when the circuit is complete.

c) Give any one condition that may unable the circuit to work

44. a) Give two reasons why causalities may need First Aid.

i)

ii)

b) Why are splints useful to a person with a fractured limb?

c) Give one quality of a good first aider.

45. a) Give two systems of grazing cattle.

i)

ii)

b) How are the following important in cattle farming?

(i) Castration

(ii) De - worming

46. a) What is teenage pregnancy?

.....  
.....

b) Give any two dangers of teenage pregnancy.

i) .....

ii) .....

c) How can school children prevent teenage pregnancies?

.....  
.....

47. a) Give the meaning of the term energy resources?

.....  
.....

b) What is the major source of energy on earth?

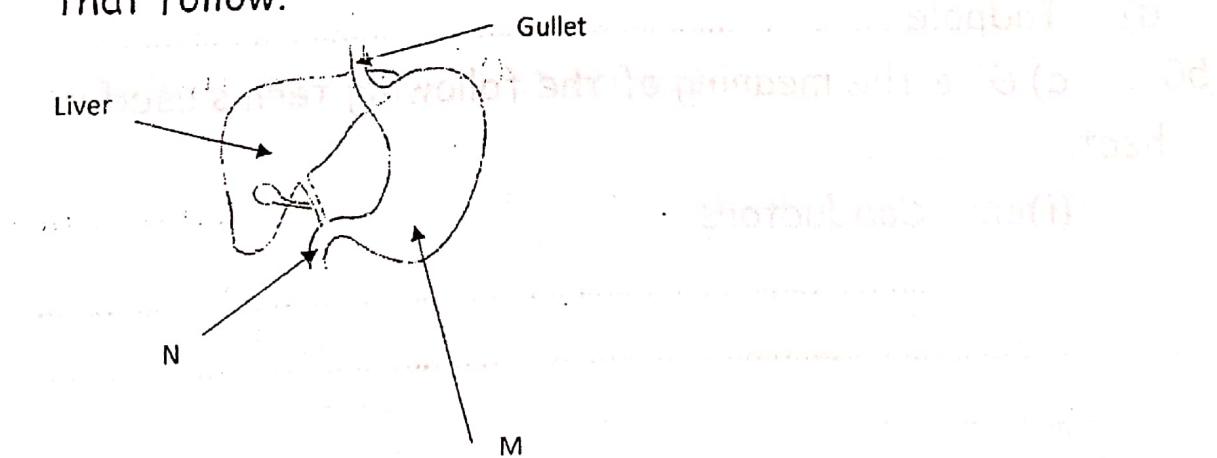
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c) Give two ways wind can act as any energy resource.

i) .....

ii) .....

48. Study the diagram below and answer the questions that follow.



- a) Name parts marked M and N.
- M.....
- N.....
- b) Where does food go after leaving M?
- .....
- c) State the role of the liver during the process of digestion.
- .....

49. Match the animal in A with what it uses for gaseous exchange in B

A

- a) Man
- b) Spider
- c) Mosquito
- d) Tadpole

B

- book lungs.
- Spiracles.
- Lungs.
- Gills.

- a) Man .....
- b) Spider .....
- c) Mosquito .....
- d) Tadpole .....

50. a) Give the meaning of the following terms used in heat.

(i) Conductors

.....

.....

## **(ii) Insulators**

- c) Why is the ironing part of flat iron made of metal?  
.....
  - d) As a school child, why do you lift hot objects using paper tissues?

51. a) How do some families benefit from alcohol?

- b) State two dangers of drinking alcohol to an individual.

i) .....  
ii) .....

c) Give one method of making alcohol in Uganda.

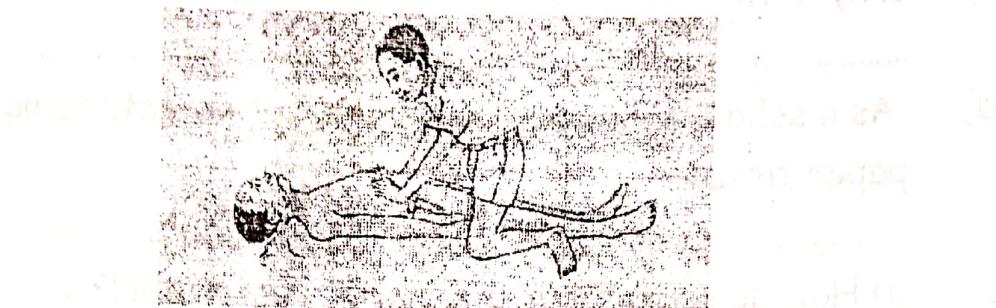
52. a) What happens to pollen grains when they land on the stigma?

- b) Give any one type of pollination.

- c) What is the use of each of the following during pollination?

- (i) Anthers.....
  - (ii) Stigma.....

53. The diagram below shows a boy who had an accident in a swimming pool being given a first aid by his friend. Study it and answer questions that follow.



- Name the type of accident that occurred.
- Give two causes of the above accident.
  - .....
  - .....
- Why is the above first aid important to the boy?

54. a) In which part of the body do we find the following bones?

- Femur.....
- Humerus.....

- b) Give two ways one can maintain the health of the bones in the body.

- .....
- .....

55. a) Name any two types of bee hives.

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

b) Give one advantage of growing flowering plants near bee hives.

.....

c) Why do bees collect propolis from trees around them?

.....

END

## **MARKING GUIDE:**

1. Endo skeleton.
2. Monocotyledonous plants.
3. Mushrooms, yeast, toadstools, puff balls
4. Lipase, amylase, trypsin.
5. Lead to a bad breath, tooth decay.
6. Copper can easily allow electricity to pass through.
7. Tightening the string.
8. Chlorophyll traps sunlight during photosynthesis.
9. Expansion of air inside the bottle.
10. White yam, Irish potato.
11. Wax lubricates the ear.
12. Leads to little or no rainfall.
13. Egg eating.
14. Dehydration.
15. Reducing the amount of effort.
16. It controls water borne diseases.
17. Generator, electric bell.
18. Yeast reproduces by budding while other fungi reproduce by means of spores.
19. Lungs enable the body to get rid of carbon dioxide.
20. Clearing tall grass around, putting mosquito nets on beds, draining stagnant water around homes, spraying adult mosquitoes with insecticides.
21. The stone is denser than water yet a feather is less dense than water.
22. Urinary bladder keeps urine while a gall bladder keeps bile.
23. To control soil erosion, to control weeds, to maintain soil fertility.
24. To reduce friction at the joint.
25. Water, salt, sugar.
26. Nectar.
27. It has a long slender slightly curved beak for sucking nectar.
28. They are already soluble.
29. Terracing, contour ploughing, strip cropping.
30. Leads to self neglect, leads to damage of some body organs.
31. To prevent them from rusting.

- 
- 32. Ventilators.
- 33. Prevent the back flow of blood.
- 34. To remove germs from their hands, to kill germs in their hands.
- 35. Reflected sound enables bats to locate food, to find their way.
- 36. Boosts the baby's immunity, stimulates faster growth.
- 37. BCG.
- 38. Through posters, songs, poems, bulletins.
- 39. Gaseous state.
- 40. The sun is used to produce solar electricity, heat from the sun can be used to dry harvested crops.

## SECTION B.

- 41. A) cotyledon.
  - b) To let in and out air.
  - c) Dicotyledonous seeds.
  - d) Presence of oxygen, presence of water, presence of warmth.
- 42. A) Sun drying, smoking, canning.
  - b) Fishing using poison, lack of food, dumping rubbish in their habitants.
- 43. A) Q. Electric bulb. Z. Dry cell, cell.
  - b) Chemical energy to electrical energy.
  - c) Too much flow of current in the circuit, fault in the bulb, poor connection of wires, low voltage.
- 44. A) to reduce pain, to reduce excessive bleeding, to overcome death, to save life.
  - b) To keep the broken limb in one place, to support the broken bone.
  - c) should be knowledgeable, should be kind.

- 45. A) Zero grazing system, paddock grazing system, herding, communal grazing, tethering.
  - b) i) controls in breeding, animals tend to fatten.  
ii) control worm infestation.

46. A) Pregnancy of children below 18 years or pregnancy that occurs after the onset of menstrual periods.

b) Lead to forced marriage, lead to death due to difficult in delivery, can lead to death due to tempted abortion.

c) Abstain from sex, guidance and counselling.

47. A) These are resources that produce useful energy in the environment.

b) used to run wind mills to generate electricity, used to run wind mills to get water from underground tanks.

48. A) M. Stomach and Duodenum.

b) To the duodenum.

c) Produces bile which emulsifies fats.

49. A) Lungs.

b) Book lungs

c) Spiracles.

d) Gills.

50. A) i) these are materials that allow heat to pass through them easily.

ii) They are materials that do not allow heat to pass through them easily/ materials that slow down the movement of heat.

b) To conduct heat easily, metals are good conductors of electricity.

c) to protect themselves against burns/ not to be burnt when handling them.

51. A) Alcohol is a source of income to some families.

b) Alcohol damages some body organs, leads to self-neglect.

c) Fermentation, distillation.

52. A) They germinate and a pollen tube develops.

b) Cross pollination, self-pollination.

c) i) produce pollen. II) Receive pollen.

53. A) Near drowning.  
b) Playing near ponds, playing near wells, failure to swim, swimming while drunk.  
c) To prevent death, to promote quick recovery, to save the life of the boy.

54. A) i) Thigh/leg. ii) The upper arm, arm.  
b) Feeding on food rich in mineral salts, regular physical exercises, observing good body posture.
55. A) Traditional bee hives, modern bee hives.  
b) To enable bees get nectar.  
c) To repair the hive, to seal holes in the hive, to make the hive smooth.

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