



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

**PRE-PRIMARY LEAVING EXAMINATION 2018  
INTERGRATED SCIENCE**

**2 HOURS 15 MINUTES**

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

Candidate's Signature: .....

School Name: .....

District :.....

**Read the following instructions carefully:**

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| <b>FOR<br/>EXAMINER'S<br/>USE ONLY</b> |
|  |

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 – 6        |       |                |
| 7 – 11       |       |                |
| 12 – 17      |       |                |
| 18 – 21      |       |                |
| 22 – 23      |       |                |
| 24 – 26      |       |                |
| 27 – 29      |       |                |
| 30 – 31      |       |                |
| 32           |       |                |
|              |       |                |
| <b>TOTAL</b> |       |                |

*Turn Over*

**SECTION A (40 MARKS)**  
**Question 1 – 40 carry one mark each**

1. Give any one agent of soil erosion

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2. Which part of air is used during respiration?

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3. Name the excretory organ which removes urea from blood

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4. State the best way of controlling heart water in live stock.

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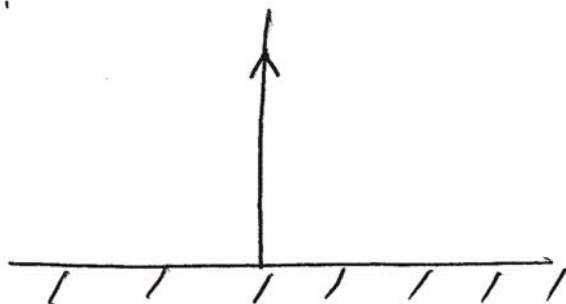
5. How does a chameleon benefit from camouflaging?

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6. What type of change is moulting?

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7. Complete the ray diagram below



8. What is the angle of incidence in the above diagram?

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9. Give one example of a hinge joint

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10. Apart from using tendrils, give any other way plants climb others.

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11. What type of reproduction is binary fission in bacteria?

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12. How does crop rotation control pests?

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13. In which state of matter does heat travel slowest?

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**Study the diagram below and answer questions 14 and 15.**



14. Under which group of parasites is the above parasite?

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15. How are structures marked S useful to the above parasite?

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16. Mention any one form of organic manure.

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17. Give a reason why breast milk is complete food.

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18. Below is part of a VIP latrine.



How does part marked N control house flies in a latrine?

19. When making ORS at home, it is important to stir the solution? Why?

20. What do the arrows in the food chain below represent?

Maize → Grasshopper → Hen

21. Apart from the sun, give another example of an energy resource.

22. State the function of a queen excluder in a modern bee hive.

23. Give one example of water borne disease that is immunizable.

24. State any one danger of silting

25. How do coffee husks keep the poultry house dry?

26. Mention any one material used to reduce friction in machines.

27. Give any one method of making temporary magnets.

28. Why should a government carryout a health survey?

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29. How can a farmer overcome warping of wood after harvesting wood?

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30. In the space below, draw a garden tool for transplanting



31. Give a reason why cooking oil floats on water.

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32. Why should expectant mothers test for HIV/AIDS.

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33. Which property of air is used when one sucks soda using a straw

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34. Give a reason why rural electrification can solve the problem of cutting trees for wood fuel.

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35. Name any one disease spread by mosquitoes

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36. How are carrots similar to beet root?

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37. Why should you encourage your friend to wash their hands before handling food?

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38. State the reason why the mechanical advantage of a single movable pulley is always one (1)

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39. Which method of making alcohol involves evaporation and condensation processes?

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40. Give the importance of sweating to man

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## **SECTION B**

41. a) How is podo and cypress similar?

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- b) Give any two products got from the above parts.

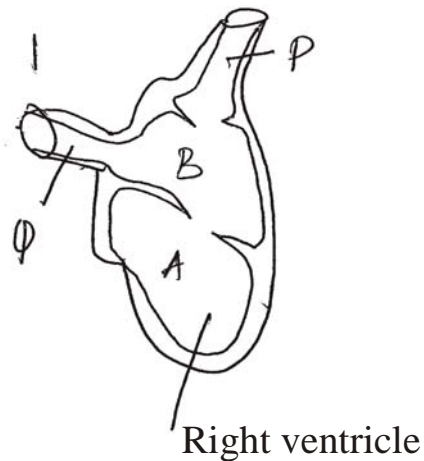
i) \_\_\_\_\_

ii) \_\_\_\_\_

- c) Why should you group beans together with podo and cypress?

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42. The diagram shows part of the human heart, use it to answer questions that follow.



- a) Name part marked B.

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- b) Where does blood go after leaving part P.

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- c) State the similarity between the blood that moves through Q and that moves through P.

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- d) Besides getting oxygen why else does blood go to the lungs?

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43. Give mode of protection for the following animals.

(i) Scorpion

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ii) Millipede

b) How are scorpions different from other arachnids in terms of protection?

---

c) State the importance of a web to a spider.

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44. a) What is a health parade?

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b) Suggest any two activities done on a health parade.

i) \_\_\_\_\_

ii) \_\_\_\_\_

c) Give any one advantage of a health parade in a school setting.

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45. a) How are weeds of a danger to plants in the garden?

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) State any two ways in which weeds are important to a farmer.

i) \_\_\_\_\_

ii) \_\_\_\_\_

46. The list below is of food stuffs. Use it to answer questions that follow.

Beans, Pawpaw, Meat, Maize, Cabbage, Bread

a) From the list above identify one source of animal protein

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b) Why do you think maize and bread can be grouped together?

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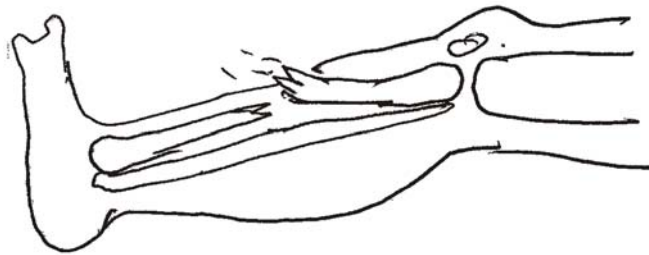
c) Apart from Pawpaw, give another source of Vitamins in the above list

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d) Give a reason why we must feed on a balanced diet.

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47. The diagram below shows a certain disorder of the skeleton. Use it to answer questions that follow.



a) Name the disorder shown in the above diagram.

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b) State any two signs of the above disorder.

i) \_\_\_\_\_

ii) \_\_\_\_\_

c) Why would you advise one to use splints during the administration of the first aid of the above disorders?

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48. a) Apart from kites, give two other examples of birds of prey.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) How are following features useful to birds of prey?

i) Sharp hooked beak

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ii) Strong curved talons

---

49. Match the following correctly  
DPT, HPV, Hep B, PCV

a) Hepatitis B \_\_\_\_\_

b) Tetanus \_\_\_\_\_

c) Cervical Cancer \_\_\_\_\_

d) Pneumonia \_\_\_\_\_

50. a) What is digestion?

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b) Give two reasons why the absorption of digested food takes place in the ileum.

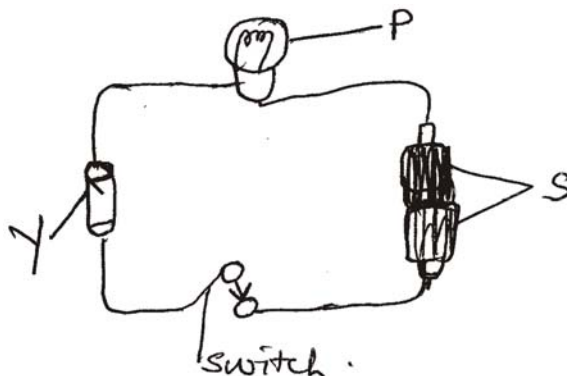
i) \_\_\_\_\_

ii) \_\_\_\_\_

c) Suggest any one way one can care for the digestive system.

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51. Use the diagram below of an electric circuit to answer questions that follow.



a) State what happens to part P when the circuit is complete?

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b) Give a reason for your answer.

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c) How does part Y work?

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d) Draw the symbol of part marked S.

52. a) Give the difference between pitch and volume of sound

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b) State any two factors that determine the pitch of a stringed instrument.

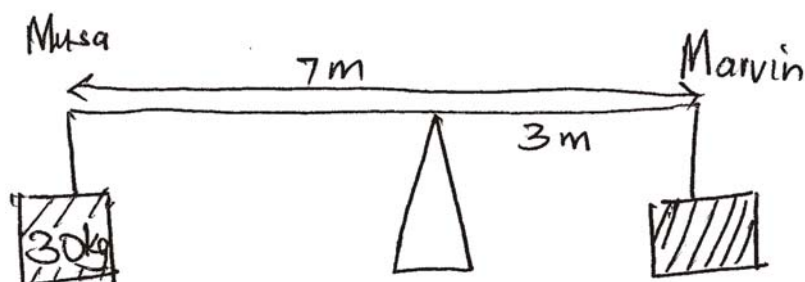
i) \_\_\_\_\_

ii) \_\_\_\_\_

c) How do drums produce sound?

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



a) According to the diagram above, who is heavier?

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b) Give a reason for your answer in 'a' above.

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c) Calculate the weight of Marvin. (2marks)

54. Put the following activities in order.

Soaking, Rinsing, Sorting, Wringing

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_

55. a) Give any two major products from sheep

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) Give any two reasons why it is not good for sheep to share a house with people.

i) \_\_\_\_\_

ii) \_\_\_\_\_