



NERDS EXAMINATION BOARD

PRIMARY LEAVING ITEM

MODERATED SET 1/4

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No:	Random No.						Personal No.		

Candidate's name: .....

Candidate's signature: .....

School Random No: .....

District No. :						
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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 printed papers** altogether.
3. Answer **all** questions. **All** the answers for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil will **NOT** be marked except drawings and diagrams.
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 the boxes inside the question paper.

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

**SECTION A (40 MARKS)**

1. What is another name for a worker bee in a bee hive?

.....

2. Why is it important to wash hands with not only water but also soap after visiting a latrine?

.....

3. Mention any one cause of short circuits.

.....

4. Describe one use of bacteria that are commonly found in dead animals.

.....

5. Why is it not advisable to pour insecticides or acidic substances in latrines?

.....

6. How can the government control spread of a cattle disease once it breaks up in an area?

.....

7. Describe the importance of water in our diet.

.....

.....

8. Which chemical in tobacco readily combines with hemoglobin?

.....

9. Why do clothes dry faster on a dry and windy day than on a cold day?

.....

10. How long is the gestation period of an ewe?

.....



11. Name the chemical burning of food in the food.

.....

12. Why is there more carbon dioxide at night than during day?

.....

13. How is intercropping important to a farmer who practices it?

.....

14. Explain why an earthworm is regarded as an invertebrate.

.....

.....

15. Name any other way the body can lose heat other than through sweating.

.....

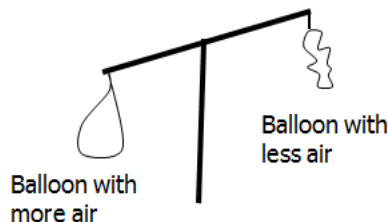
16. What do you understand by the term adolescence?

.....

17. What is the use of a beak to a bird?

.....

18. Identify the property of air shown in the diagram.



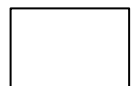
.....

19. What simple method can be used to distinguish a bad egg from a good one?

.....

20. Why do crawling children usually suffer from diarrhea?

.....



21. What is soil exhaustion?  
.....
22. Name any one effect of drug addiction.  
.....
23. Why is transpiration important to plants?  
.....
24. What happens to mechanical advantage of a system if effort is increased?  
.....
25. Which class of vertebrates does a monitor lizard belong?  
.....
26. Why are electric wires loosely attached on electric poles during installation?  
.....
27. Mention any one way of reducing the spread of tuberculosis.  
.....
28. In the space provided, draw lunar eclipse.
29. What are primary colours?  
.....
30. Name any one gaseous component of water cycle.  
.....



31. Name any one example of contagious diseases.

.....

32. Why is crossbreeding important in cattle keeping?

.....

33. Why do stones fall back to the group when thrown in air?

.....

34. What is ball and socket joint?

.....

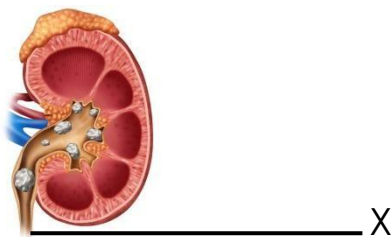
35. Name any one negative effect of population growth.

.....

36. Why is photosynthesis maximum during midday?

.....

Use the diagram below to answer question 37 and 38.



37. Name the part labeled X

.....

38. Which system of the body does the above diagram belong?

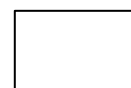
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39. Name any one factor that affects the rate of digestion.

.....

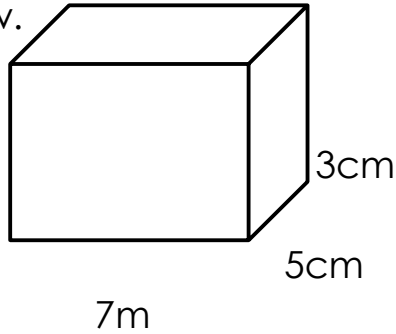
40. Which form of feeding do mushrooms exhibit?

.....



**SECTION B (60 marks)**

- 41 a) The diagram below is of a cuboid. Use it to answer questions that follow.



- b) Calculate the volume of the cuboid above.

- c) If the mass of a cuboid is 315g. Find the density of the cuboid.

42. Apart from wind, give any two agents of pollination in flowering plant that;

- a) Manufacture food

i). .....

ii). .....

- b) absorbs dissolved mineral salt and water.

i). .....

ii). .....

43. a) Give the function of the following parts of a skeleton

i) rib cage.....

ii) tendon .....

b) State any two pieces of advice you give to someone to maintain the skeletal system in a proper working condition.

i) .....

ii).....



44 a) Give any one reason why the government of Uganda gives people mosquito nets free of charge.

.....

b) Give any two diseases controlled by proper use of mosquito nets at home

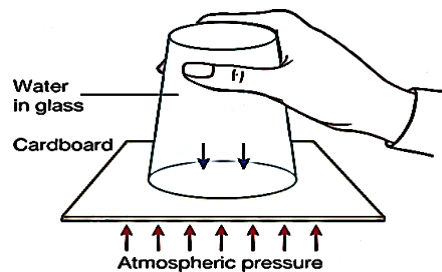
i).....

ii).....

c) Which stage of a mosquito is affected by draining away stagnant water?

.....

45. The diagram below shows a property of air use it to answer questions that follow.



a) Name the property of air illustrated above.

.....

b) Why didn't the cardboard fall off?

.....

c) How useful is the above property to:

(i) Crop farmers.....

(ii) health workers .....

46.(a) What friction force opposes a small stone thrown into a jerrycan of cooking oil?

.....

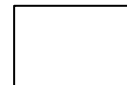
(b) State any two advantages of friction to man.

(i) .....

(ii).....

(c) State any one way friction can be reduced in a machine?

.....



47. (a) Write down two methods used to get clean and safe drinking water from dirty water.

(i) .....

(ii).....

(b) Mention any two causes of water contamination in water bodies.

(i) .....

(ii) .....

48. Use one sentence to state the meaning of each of the following;

a) Reflection of light

.....

b) Refraction of light

.....

(b) Spectrum

.....

(b) What type of reflection is produced from rough shinning surface?

.....

**49.Man is one of the agents of environmental degradation.**

a) What is environmental degradation?

.....



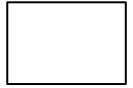
b) Identify any two human activities that have led to environmental degradation.

i) .....

ii).....

c) How has NEMA tackled environmental degradation in Uganda?

.....



50. (a) List down two agents of seed dispersal.

(i).....

(ii) .....

(b) State any two advantages of seed dispersal.

(i) .....

(ii).....

51. (a) Give any two examples of accidents that can happen at school apart from aburn, scald and fracture.

(i) .....

(ii).....

(i) State any two reasons why accident victims should be given first aid.

(i) .....

(ii) .....

52. State the type of change which occurs in each below:

(a) Cloud formation.....

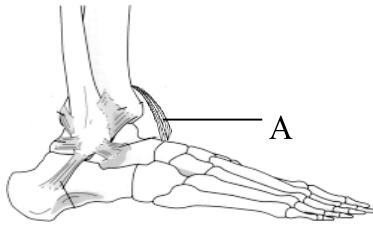
(b) Digestion of food in man.....

(c) Germination.....

(d) Rusting in metallic objects.....



53. The diagram below shows an ankle of a person. Use it to answer the following question.



a) Name the part labeled A.

.....

b) Mike overstretched this part and tore it during an accident. What kind of injury did he get?

.....

c) What is the possible sign of the injury he got?

.....

d) Identify the first aid you would give to the above kind of injury.

.....

54. Which bone joins the pelvis and tibia?

.....

(b) Explain briefly the following:

(i) Voluntary muscles

.....

(ii) Involuntary muscles

.....

(c) Give one use of muscles in the body.

.....

55. (a)How does each of the following animals protect itself from enemies?

(i)Porcupine:.....

(ii) Wasp:.....

(b) Give any two reproductive strategies that enable frogs use to succeed.

(i).....

(ii).....



**END**

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