



THE DREAM EDUCATION CONCERN

PRE-PLE SET IV

INTEGRATED SCIENCE

Time allowed 2hours & 15minutes

Candidates' Name:

School:

Candidates' Signature:

INDEX NO

Random Number						Personal No.		

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully

1.This paper is made up of 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 in both sections A and B.

5.All answers MUST be written in the space provided in blue or black ball point pens or ink. All diagrams Should be in pencil.

6.Unnecessary crossing of answers will lead to loss of Marks.

7.Poor hand writing which cannot be easily read, may lead to loss of marks.

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FOR EXAMINERS' USE ONLY		
Qn. No	MARKS	SIGN
1- 10		
11-20		
21-30		
31-40		
41-46		
47-48		
49-51		
52-53		
54-55		
TOTAL		

Approved
CCD

SECTION A (40 MARKS)

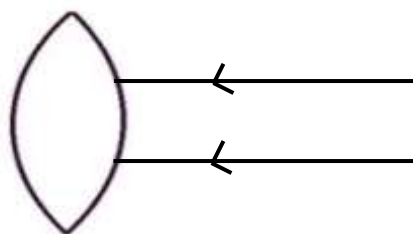
1. Why is an axe called a simple machine?

.....

2. Why is dew formed at night?

.....

The diagram below shows parallel rays striking a convex lens, study it and answer questions 3 and 4



3. Complete the diagram

4. What eye defect does this type of lens correct?

.....

5. Why is lightning said to be electricity?

.....

6. What first aid would you give to a person who is suffering from diarrhea?

.....

7. Give one use of saliva in the digestive system.

.....

8. Why is a bat called a mammal and not a bird?

.....

9. Give any one characteristics of an image formed in a pinhole camera.

.....

10. Why is the ventilated improved pit latrine left without a cover?

.....

11. Which type of germination does a millet seed undergo?

.....

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12. Give any one role a school health club can play in the control of malaria in the community.

.....

13. Why should harvesting be done during dry season?

.....

14. What is moulting?

.....

15. Which part of a cow is affected with mastitis?

.....

16. Suggest any one reason why farmers cut off the leaves of bananas before planting.

.....

17. Study the diagram below showing Masiga Junior ready in the football peach / field



Which type of energy is possessed by the ball as in diagram above?

.....

18. In the space provided, draw a diagram of a swarm catcher.



19. How important is the above drawn tool to a farmer?

.....

20. Mention any one sign of a nanny goat on heat.

.....

21. Name the device which is used to switch electric appliance on and off automatically.

.....

22. Why are bacteria and fungi regarded as decomposers?

.....

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23. Give any way in which a child health card is important to a school health committee.

24. How can a poultry farmer control cannibalism on his farm?

25. Convert 41°F degrees Fahrenheit to degrees Celsius.

26. How is respiration of a tadpole similar to that of a fish?

27. The diagram below shows three types of metals, study it and answer questions that follows.

X before heating

 T Y after heating

 T

B B

D D

Explain the cause of difference in length after they have heated.

28. What are voluntary muscles?

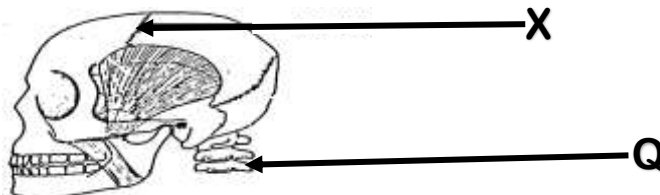
29. In which part of female reproductive system does fertilization take place?

30. What do you understand by the term a plug?

31. Which type of immunity do babies get from their mothers?

32. What is the difference between drenching and dosing?

Below is a diagram showing a given type of a joint, use it to answer questions 33 and 34



33. Name the joint marked X.

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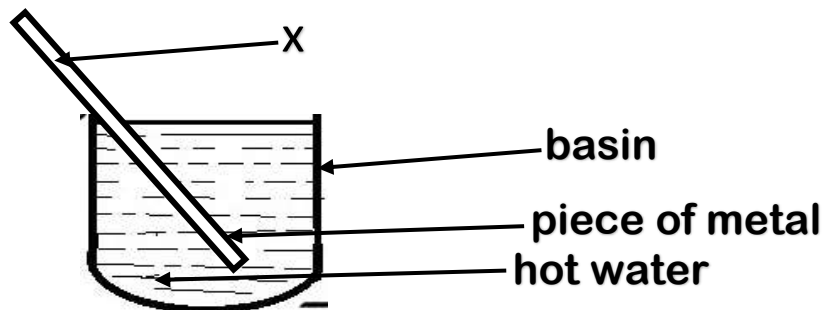
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34. How do we call joint marked Q?

35. Name the disease of birds which affects poultry.

36. The diagram below shows a piece of metal dipped in a basin containing hot water.



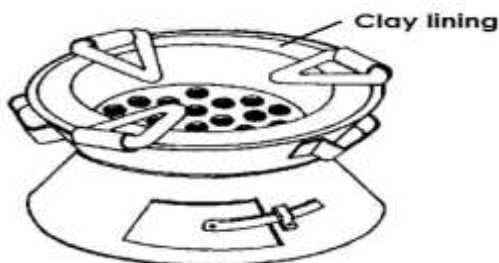
After a few minutes part marked X became hot, explain why yet it was not in hot water.

37. Name the group of musical instruments to which the instrument below belongs.



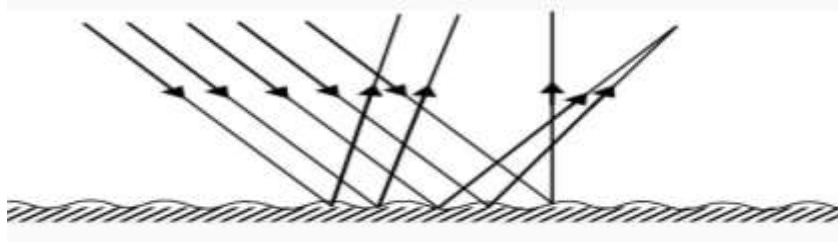
38. State one reason why magnets are kept in keepers.

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



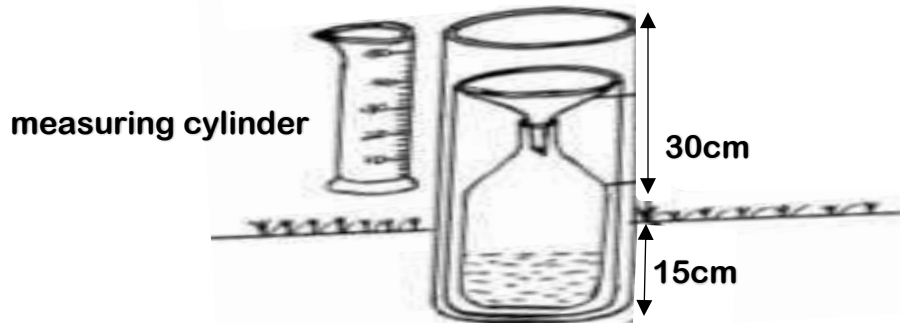
Why is the above stove said to be good in conserving the environment?

40. What type of reflection is represented by the diagram below?



SECTION B (60 MARKS)

41. Study the diagram below and answer the questions that follows.



(a) Give the reason why people are always advised to;

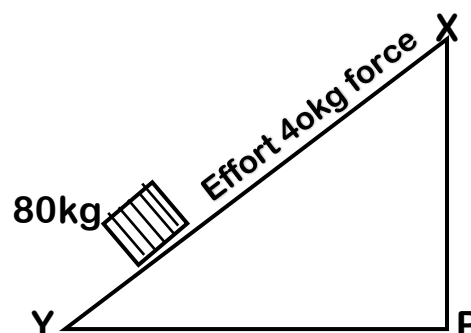
(i) Raise the instrument 30cm above the ground.

(ii) Place the instrument 15cm below the ground.

(b) State one reason why rainfall is measured in millimetres.

(c) What is the use of an instrument drawn above at a weather station?

42. The diagram below shows a machine used to lift loads. use it to answer questions that follows



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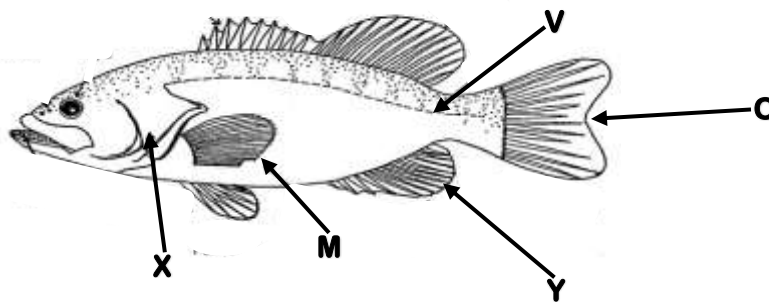
(a) Find the mechanical advantage of the machine above.

(b) Through what distance is the load to be lifted?

(c) How can a machine be improved?

(d) Give the advantage of lifting the load along side XY.

43. Study the fish below and answer questions that follows.



(a) Name part marked Y.

(b) What is the function of part marked V and O?

(c) What structure is covered by part labelled X?

44. (a) State any two causes of soil erosion.

(b) Which agent of soil erosion causes gullies?

(c) How does soil erosion lead to soil infertility?

(d) How do the people who live around Kigezi regions control soil erosion?

45. The candidate class went on a tour in Nakasongola where UMEME had gone extend electricity in a project called rural electrification sponsored by government of Uganda. They witnessed that the wires were left loose / sagging.

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(a) State one reason why the wires were left sagging.

.....
(b) What would happen if the wires were tightly fixed?

.....
(c) Why are electric wires placed high up?

.....
(d) Why are timber poles used instead of metallic poles when doing electrification?

.....
46. Use the list of crops given below to answer the questions that follows.
Conifer, Coffee, Cassava, Groundnuts.

(a) Which plant on the list above is planted by use of stem cutting?

.....
(b) Identify any one crop on the list which is;

(i) An annual

(ii) A perennial

(c) Give any one way in which a conifer is different from other crops on the list.

.....
47. The table below shows human organs, the system to which they belong and the organ functions. Study and complete it correctly.

ORGANS	SYSTEM	ORGAN FUNCTIONS
Heart	_____	It pumps blood to all body parts
_____	Excretory	Formation of urine
Epididymis	_____	It stores sperms
Pancreas	Digestive	_____

48. (a) What is drug prescription?

.....
(b) Write any two characteristics of laboratory manufactured drugs.

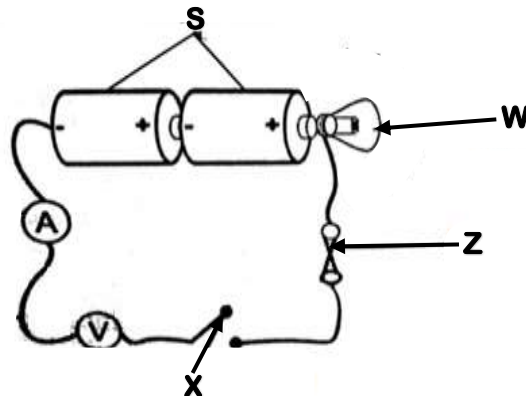
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(c) State the effect of smoking to un born babies /foetus.

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



(a) Name the parts marked W and Z

W

Z

(b) State the energy change that takes place at S.

(c) Give one form of energy produces at W when X is closed.

50. (a) How does a lightening conductor control lightening?

(b) State any two ways of preventing lightening in the environment.

(c) Outline any one use of electricity

51. (a) What is Rabbity?

(b) Suggest any two reasons why people keep rabbits.

(c) What name is given to a house of rabbits?

52. (a) State any two advantages of breast feeding to the mothers.

(b) Define bottle feeding.

.....
(c) Outline any one disadvantage of bottle feeding.

.....
53. (a) What kind of food is made by green plants?

.....
(b) State any one raw material used by green plants during photosynthesis.

.....
(c) Give one reason why photosynthesis does not take place at night.

.....
(d) How is chlorophyll important during the process of photosynthesis?

.....
54. (a) State the respiratory organs which are protected by the rib cage.

.....
(b) What happens to the rib cage during the following processes

(i) Breathing in?

.....
(ii) Breathing out?

.....
(c) Give the use of oxygen we breathe in.

.....
55. (a) Why are babies said to have many bones than adults?

.....
(b) What scientific term is used to mean the process by which cartilages turn into bones?

.....
(c) Identify the two regions of a skeleton.

(i)

(ii)

THE DREAM WISHES YOU SUCCESS AS YOU WATCH OUT FOR SET FIVE

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