



VICTORY STEP EDUCATION SERVICES

PRE PLE SET II EXAMINATIONS

INTEGRATED SCIENCE

Time Allowed: 2 hours : 15 minutes.

INDEX NO	Random No.						Personal No.		

Candidates Name:.....

Candidates Signature :.....

District ID:.....

Read the following instructions carefully:

1. The paper is made up of two sections: **A** and **B**.
2. Section **A** has 40 questions (40 marks).
3. Section **B** has 12 questions (60 marks).
4. Answer **ALL** questions. All answers to both sections **A** and **B** must be written in the space provided.
5. All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any illegible handwriting may lead to loss of marks.
8. **Do not** fill any thing in the boxes indicated for Examiner's use only.

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

SECTION A

Questions 1 – 40 carry 40 marks

1. Give a reason why melting of ice is regarded as a physical change.

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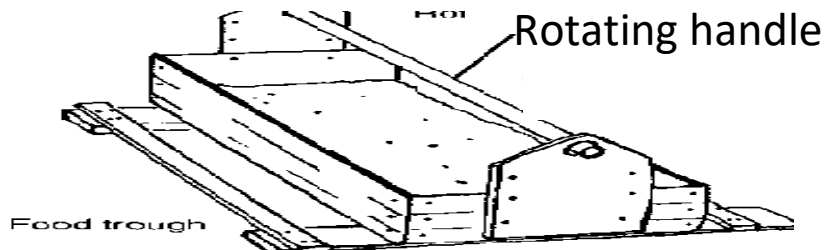
2. Which element of PHC helps to check on the population growth?

.....

3. Why are school children advised to iron clothes before they wear them?

.....

Study the diagram below and use it to answer the questions that follow.



4. Why is the above structure made of a rotating handle?

.....

5. Give one danger of cutting finger nails with teeth.

.....

6. Name the intestinal worm that enters the body through eating undercooked meat.

.....

7. Give one way in which molluscs are important to people.

.....

8. List any one factor that affect pitch of sound produced by an object.

.....

9. Why does blood go to the lungs during blood circulation?

.....

10. Which fungus is used during fermentation method of making alcohol?

.....

11. What type of skeleton do earth worms have?

.....

12. Mention any one sign of tuberculosis similar to that of AIDS.

.....

13. Name any one of the 5Rs in waste management.

.....

14. Why is the fire extinguisher painted with bright colours

.....

15. State one danger of leaving utensils for a long period time outside on the rack

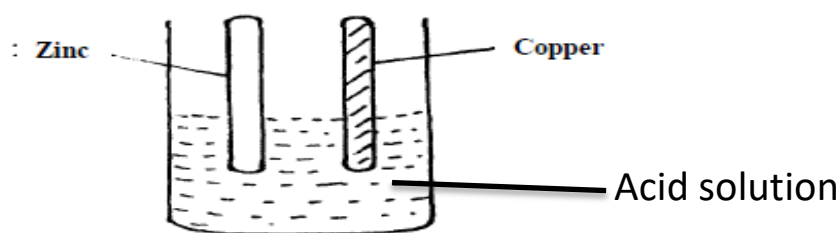
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16. How is the chameleon important to human beings?

.....

17. Give the function of the epiglottis in the respiratory system

18. Name the source of Direct current electricity shown below.



19. How can a passion fruit benefit from growing near a mango tree?

20. How is the skin similar to the eye apart from being sensory organs?

21. Give any one form energy produced when one is splitting fire wood.

22. Draw a block and tackle pulley in the space below.

23. How does a skunk protect itself against its enemies?

24. What do you understand by **dual purpose cattle**?

25. How does passive smoking affect the health of a person?

26. What is the function of tendons in the human body?

27. Give a reason why it is not good to touch wires that have fallen off electric poles with bare hands.

28. Name the method of heat transfer that enables someone to iron clothes using a flat iron.

29. State any one reason why solar panels are usually placed on top of a house roof.

30. Identify one part of the body whose working is similar to that of wedges.

31. Give any one way of increasing friction.

32. In which one way is excretion important to an organism.

33. Give the difference in cause between scalds and burns.

34. Mention one surface where regular reflection of light can occur.

35. Give any one sign of night blindness in humans.

36. Write down one way in which weeds reduce crop yields.

37. State any one way in which farmers care for animals in the farm.

38. Write down one factor considered when establishing a woodlot.

39. Give one reason why farmers carry out seed selection before planting them.

40. Which human body system is mainly affected by candidiasis?

SECTION B(60 marks)

41. The list below is of living things in the environment. Use it to answer the questions that follow.

Grass , leopard , chicken , locust

a) Use the given list of animals to construct a correct food chain.

b) Which living organism in the list above is;

i) Producer.....

ii) Secondary consumer.....

c) Name the source of energy for the above producer.

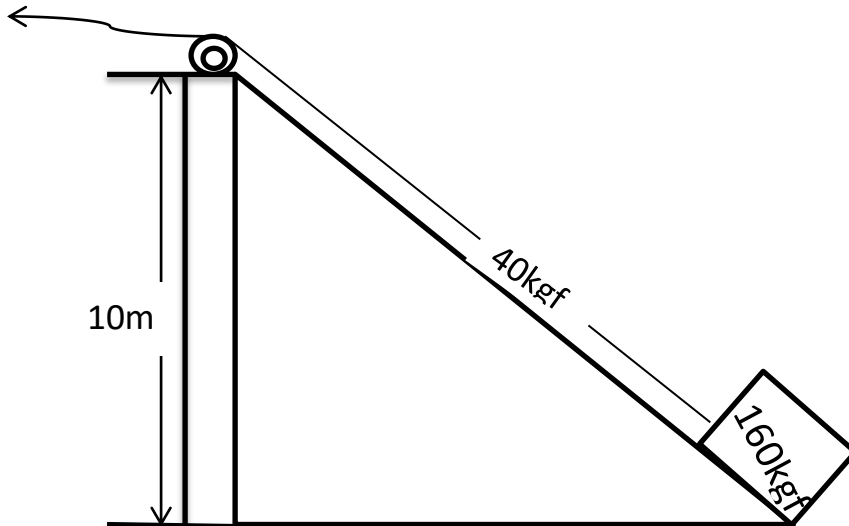
42. Mrs. Mulokole kept one sheep and one rabbit in different houses. She used to put different types of food in their houses . She recorded the number of times they ate each type of food. The following was his daily recordings.

Animal	Number of times each food was eaten.					
	Sweet potatoes leaves	Cassava leaves	Sorghum leaves	Grass	Maize leaves	Banana leaves
Sheep	3	1	0	3	2	4
Rabbit	4	2	1	2	3	2

a) What was the most favourable food for;

- i) Sheep.....
- ii) Rabbit.....
- b) What was the most favorable food for the rabbit.
.....
- c) If Mrs. Mulokole was to use only one type of food, which one would be the most favourable.
.....

42. The diagram below shows an inclined plane . Study it carefully and use it to answer the questions that follow.

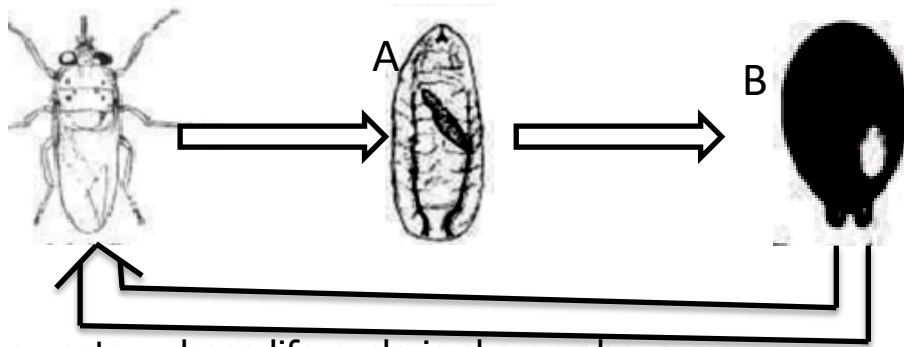


- a) State the distance through which the load moves.
.....
- b) Calculate the mechanical advantage of the above machine
.....
.....
.....
.....
- c) What can be done to the above machine in order to use less effort.
.....

- 43a) Name the human body organ which excretes;
 - i) Bile pigments:.....
 - ii) Carbon dioxide:.....
- b) Apart from undigested food remains,give other two components of faeces.
 - i).....
 - ii).....

- 44a) On which principle does a pinhole camera work?
.....
- b)Give any two characteristics of images formed by a pin hole camera.
 - i).....
 - ii).....
- c) Mention any one factor which determines the sharpness of images formed by a pinhole camera.

45. The diagram below shows the life cycle of a vector. Study it and answer the questions and use it to answer the questions that follow



a) Name the vector whose life cycle is shown above.

b) Name the stage marked B.....

c) What does stage C feed on?.....

d) How can the above vector be controlled in the environment?

46a) Name the force that pulls all objects towards the centre of the earth.

b) When an empty polythene bag and a stone are dropped from the same height. Which one reaches the ground first.

ii) Give a reason for your answer.

c) Why do some objects weigh less on water?

47a) Name the type of movable joint found in the following parts.

i) Shoulder.....

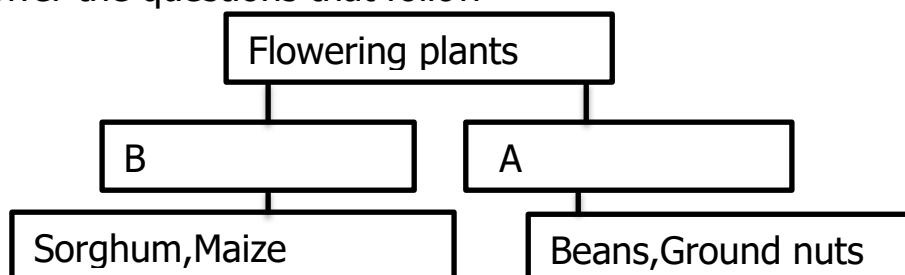
ii) Wrist.....

b) Give two ways of keeping the skeletal system in a good working condition.

i).....

ii).....

48. The table below shows classification of flowering plants. Study it carefully and use it to answer the questions that follow



a) Identify the group of flowering plants marked.

i) B..... A.....

b) Give any two differences between plants in group A with those in B

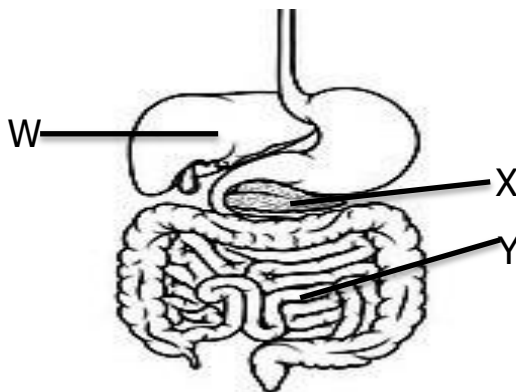
49a) Give one reason why dehydration is dangerous to humans

b) In which way is ORS a good treatment for diarrhoea?

c) Apart from taking ORS, how else can one prevent dehydration.

d) How can one preparing ORS prevent it from contamination?

50. The diagram below shows an alimentary canal of a human being , Use it to answer the questions that follow.



a) Name the parts marked:

i) W..... X.....

b) State any one process that takes place in the part marked Y

c) Give any one function of the part labeled X

51a) What is the function of the clinical thermometer?

b) What liquid is mainly used in a clinical thermometer?

c) Why is the liquid you have used above commonly used in clinical thermometers?

d) Give any one reason why there is a bend in a clinical thermometer.

52a) Give one process in plants in which;

i) Oxygen is used.....

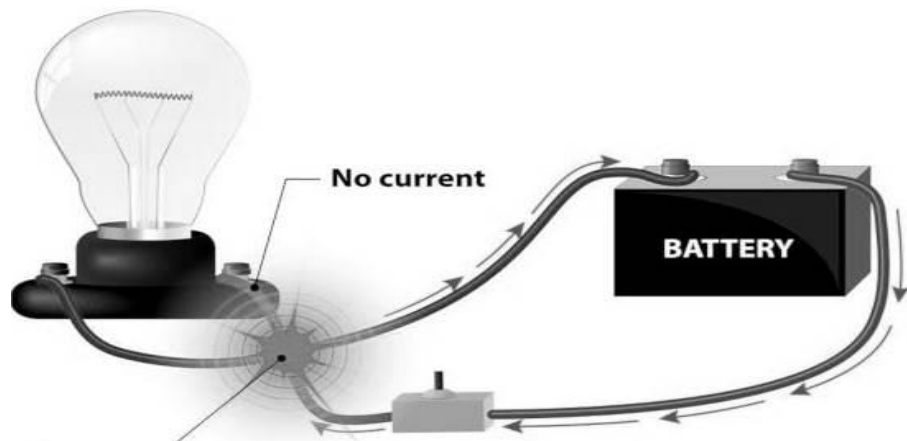
ii) Carbon dioxide is used.....

b) What useful by - product is produced in 52(a)(ii) above.

c) Give any other natural process in the environment that uses Oxygen.

.....

53. The diagram below shows a condition during the flow of electricity along electric wires. Study it carefully and use it to answer the questions that follow.



a) Identify the electrical condition shown above.

.....

b) Write down any two causes of the above condition during the flow of electric current.

i).....

ii).....

c) State any one danger of the above condition to people.

.....

54a) State any one characteristic of social insects.

i)

b) Give any two characteristic of insect pollinated flowers

i).....

ii).....

c) Why is a worker bee unable to lay eggs?

.....

55a) How is measles administered to a child?

.....

b) Give any one sign of measles apart from skin rashes.

.....

c) In which way can measles be prevented from attacking the baby?

.....

d) Why is it important to give a child suffering from measles plenty of fluids to drink?

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