

"In Pursuit of PLE Excellency"

KUCH & ABER EDU-LOG EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATIONS 2022

OMEGA MASTER

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

EMIS NO.						Personal No.			

Candidate's Name:.....

Candidate's Signature:.....

School Name:.....

District Name:.....

Read the following instructions carefully

1. This paper has two sections: **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. Any work written in pencil other than graphs, pictures, diagrams and maps will **not** be marked.
4. Unnecessary change of work may lead to **loss** of marks.
5. Any handwriting that cannot be easily read may lead to **loss** of marks.
6. Do **not** write anything in the boxes indicated: **"For Examiners' Use Only"** and those inside the question paper

Please Turn over!

FOR EXAMINER'S USE ONLY		
QN. No	MARK	SIGN
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION

. (Questions 1 to 40 carry one mark each)

1. Name the type of cloud which is the highest in the sky.

2. Apart from light Sussex, name any one other exotic breed of chicken kept for meat.

3. Give anyone example of a non renewable energy resource.

4. Why is it Importune for a husband and a wife to be treated together if they have got gonorrhea

5. Name the type of bees that develops from unfertilized eggs.

The diagram below shows a musical instrument. Use it to answer question 6 end 7.



6. How can the pitch of the above musical instrument be varied?

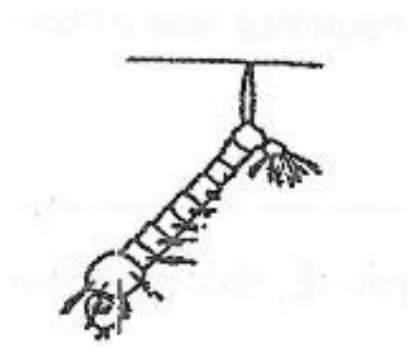
7. Name the group of musical instruments to which the above instrument belong.

8. Give one way wood fuel can be conserved.

9. How do the silvery walls of a thermos flask reduce heat loss?

10. Why does a clay made charcoal stove use less charcoal than a metallic one?
-
11. How does leaching reduce soil fertility?
-
12. Why does a farmer cut off leaves of a banana sucker before planting?
-
13. Give anyone way in which electric current produced by a dynamo can be increased.
-

The diagram below shows a mosquito larva. Use: it to answer questions 14 and 15 below

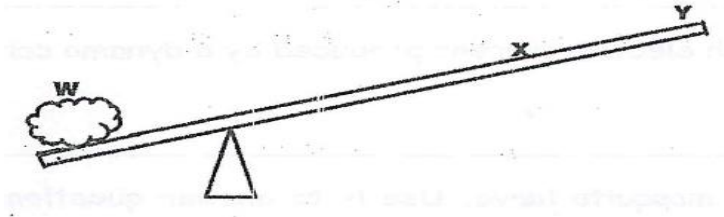


14. Name the mosquito which develops from the above larva.
-
15. Which disease does the mosquito you have named above transmit to human beings?
-
16. How do carnivorous animals get energy from plants?
-
17. Give a reason why farmers sort seeds before planting them.
-
18. State anyone principle of PHC.
-
19. Give one way in which plastic materials can be re-used at home.
-

20. What is the importance of gap filling in crop growing?

21. How is the reproduction in a whale different from that of a fish?

The diagram bellow shews a crow bar. Study and use it to answer the question.



22. Which of the two position X and Y requires less effort to overcome the load W?

23. Indicate on the diagram with an arrow E, the direction of effort used to overcome load W

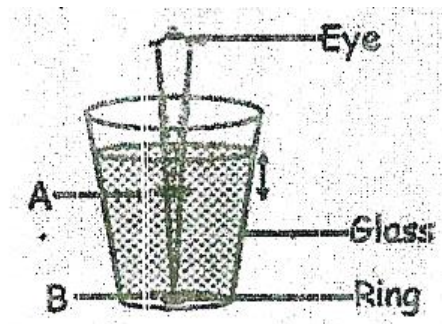
24. Name one disease that affects the stomach because of alcoholism.

25. How is the function of the pulmonary vein different from that of other veins?

26. Why do plane mirror's produce regular' reflection of light?

27. How is the function of the anthers in flowers similar to that of tests in human?

The diagram below shows an object in a glass of water. I study and use it to answer the question.

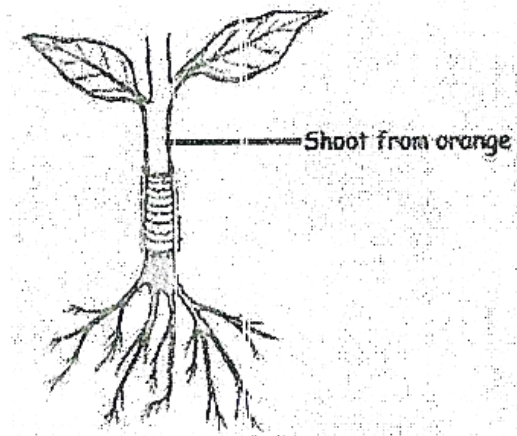


28. Why does the object appear to be at point **A** yet it is at point **B**?

29. Why do the lungs expand during breathing in?

30. Which method of harvesting trees allows new shoot to grow from the stump?

The diagram shows a method of plant propagation. Use it to answer the question that follows.



31. Name the method of propagation shown in the diagram above.

32. Why is a fuse made of a thin wire?

33. Which disease is spread to humans by rats?

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

35. Give one way in which a single fixed pulley is used in a school.

36. Name one other disease caused by fungi to human apart from ring worm.

37. State the method which can be used to obtain salt that has dissolved in water.

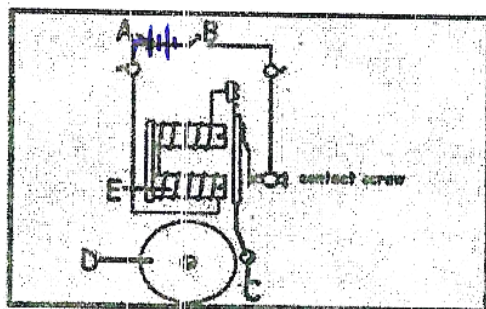
38. State the principle on which a periscope works.

39. Name one root tuber which is propagated by means of seeds.

40. Draw a lens used to correct short sightedness

SECTION B

41. Study the diagram of an electric bulb below and use it to answer questions that follow.



a) Name part marked A and C.

A _____ C _____

b) What will happen to E when B is dosed?

c) How useful is part D on an electric bell?

42.a) Give two ways in which drug dependency can affect an individual.

(i) _____

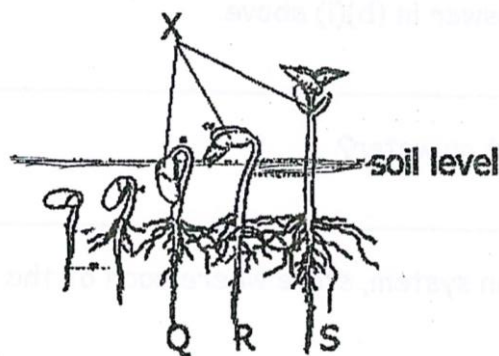
(ii) _____

b) State two ways in which an individual can avoid drug dependence.

(i) _____

(ii) _____

43. In the diagram below Q, R and S show the stages of germination of a seed. Study and use it to answer the questions that follow.



a) Name part marked X. _____

b) How is "the part marked X useful to the seedling at stage R?

c) Why is the part marked X useless at stage S?

d) What type of germination is shown by the seed?

44a) What causes fainting?

b) State any two conditions that can lead to fainting.

(i) _____

(ii) _____

c) Why are the legs of a person who has fainted raised higher than the head when giving first Aid?

45a) Name the force that brings down all objects thrown up.

b) i) When a piece of paper and a rubber are dropped from the same height, which one reaches the ground first.

ii) Give a reason for your answer in (b)(i) above. c)

c) Why do some objects float on water?

46a) In the human reproduction system, state where each of the following processes take place

(i) Implantation

(ii) Production of sperms

(iii) Production of female hormones.

b) Give one use of the placenta to the foetus during pregnancy.

47a) Apart from lack of conditions necessary for germination, give any two other factors that can make a seed fail to germinate.

(i) _____

(ii) _____

b) Write down any two ways farmers can control pests in the garden without using chemicals.

(i) _____

(ii) _____

48a) State the method that can be used to separate.

(i) fruit seeds from juice _____

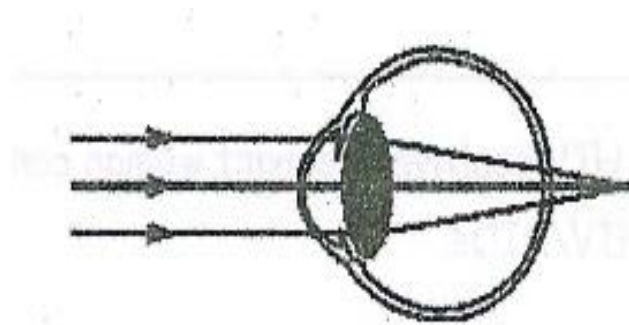
(ii) millet seeds mixed with husks. _____

b) Give the importance of the following steps in cleaning clothes at home.

(i) sorting _____

(ii) soaking _____

49. The diagram below shows the defect of the human eye. Study and use it to answer the questions that follow.

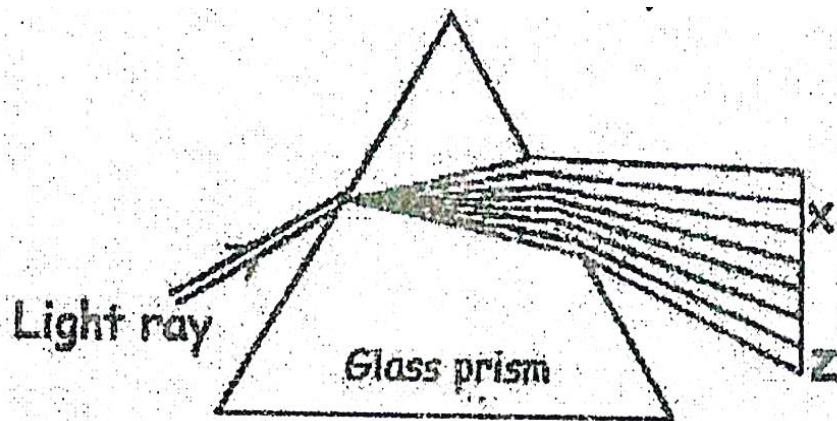


a) Name the eye defect shown above.

b) State the two causes of the eye defect shown above.

c) What type of lens is used to correct the above eye defect?

50. The diagram below shows how light is split into seven colours using a glass prism. Study it and answer the questions that follow.



a) Name the colours X and Z.

X, _____

Z, _____

b) Why do the light rays bend at different angles as they leave the glass prism?

c) Why do we always see the above band of Seven colours in the sky when it is raining lightly?

51a) Give any two possible ways through which a baby can get HIV / AIDs from the mother.

(i) _____

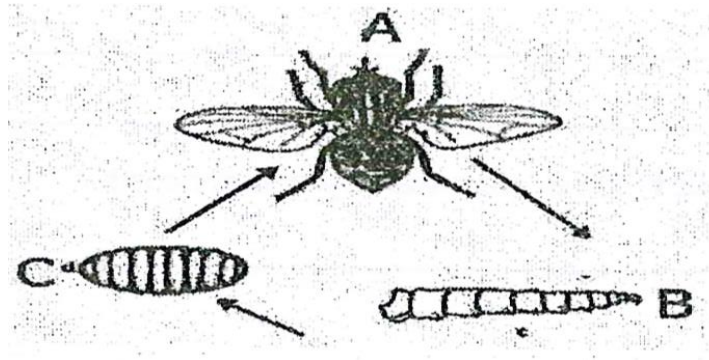
(ii), _____

b) State two ways in which an HIV positive pregnant woman can protect her unborn baby from getting HIV / AIDs.

(i) _____

(ii) _____

52. The diagram below shows the lifecycle of a vector. Study it and 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 A feed on?

d) How does the vector whose life cycle is shown above spread diseases?

53a) Give any two ways in which Primary Health Care (PHC) is an important program in the community.

(i), _____

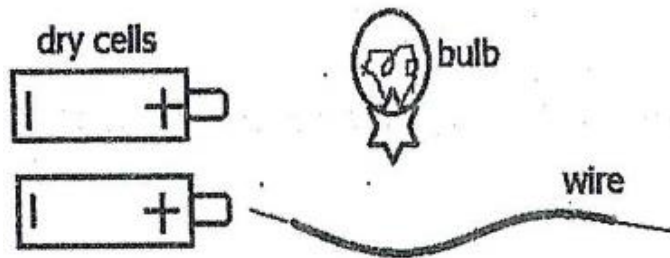
(ii), _____

b) State any two roles of a school health committee.

(i), _____

(ii), _____

54. Arrange the part of an electric circuit below by drawing to show a complete circuit.



55a) Apart from antenatal care, give any two other ways of caring for pregnant women.

(i) _____

(ii) _____

b) In which way should pregnant women protect their unborn babies from getting malaria.

c) Why are pregnant women advised not to smoke?

END