



KYLA EDUCATIONAL SUPPLIES LTD
PRIMARY LEAVING EXAMINATIONS
2022

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

Index No.

Random No.						Personal No.		

Candidate's name :

Candidate's signature :

School Random number :

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 **15 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 EXAMINER'S 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

Questions 1 to 40 carry equal marks each.

1. Name the class of food needed by a person recovering from a disease.

.....

2. State **one** eye fluid which refract light.

.....

3. Which part of human body performs a similar function as feelers of an insect?

.....

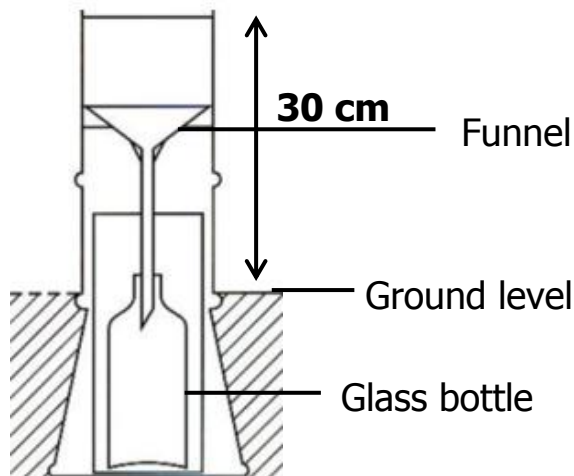
4. State any **one** way in which flowers are important to plants.

.....

5. Give any **one** use of cow dung to farmers.

.....

The diagram below is of a weather instrument. Study it and answer the question **6**.



6. Give the reason why people are advised to raise the instrument 30cm above the ground when using it.

.....

7. Which method of heat transfer enables farmers to dry their harvested crops using sunshine?

.....

8. Why should covid-19 victims be kept away from other people?

.....

9. Which agent of soil erosion causes gullies?

.....

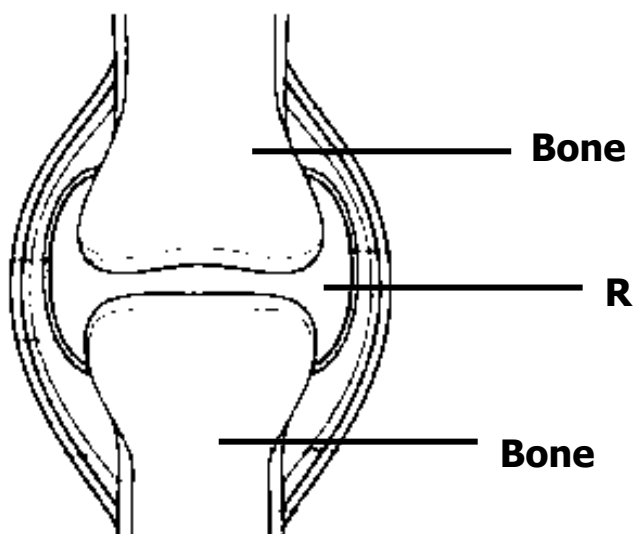
10. What is the importance of a queen excluder in a modern bee hive?

.....



11. State the class of lever in which the load is in between the effort and the fulcrum.
.....
12. Give a reason why a tsetse fly is dangerous to cattle.
.....
13. How does paddock system of grazing cattle control the spread of tick-borne diseases?
.....
14. Give **one** advantage of old litter from a poultry house to a crop farmer.
.....

The diagram below is of a human joint. Use it to answer questions **15** and **16**.

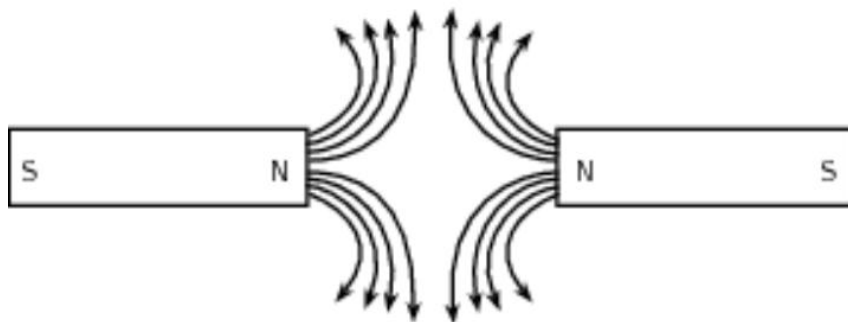


15. What type of joint is shown in the diagram above?
.....
16. Give **one** function of the fluid found in the place marked with letter **R**.
.....
17. Name any **one** example of a harmful bacteria to man.
.....
18. State **one** way in which photosynthesis is useful to animals.
.....
19. Name the type of reflection produced by plane mirrors.
.....
20. Apart from winnowing, give **one** other way in which wind is useful to crop farmers.
.....



21. To which body system does the organ that removes urine from the body belong?
.....
22. State the characteristic which shows that a duck billed platypus is a mammal.
.....
23. Why does blood move from the heart to the lungs before it moves around the body?
.....
24. State any **one** disease that makes a mother not to breast feed her baby.
.....
25. Which form of energy is responsible for temperature changes of an object?
.....

The diagram below shows a property of magnets. Use it to answer the question **26**.

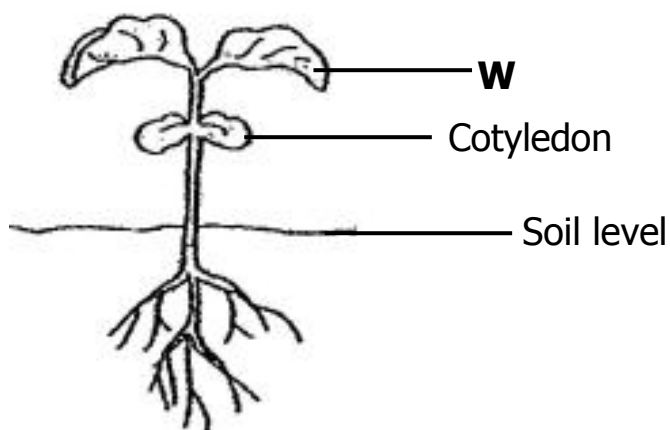


26. State the property of magnet shown in the diagram above.
.....
27. State the important process which takes place in the cortex of the kidney.
.....
28. How does a screen on the vent pipe of a VIP latrine help to control the spread of diarrheal diseases?
.....
29. State the effect hiccups cause to the respiratory system.
.....
30. Name the disease prevented by administering polio vaccine to children.
.....



31. Why are vitamins not digested in the human body?
.....
32. Name the structure in veins that works like a kink in a thermometer.
.....
33. What type of energy is stored in dry cells?
.....
34. How is oxygen important during the respiratory system?
.....
35. State **one** practice in the community that would help in the control of communicable diseases.
.....

The diagram below is of seed germination. Use it to answer question **36**.



36. Name the leaves marked **W**.
.....
37. Give **one** characteristic which makes toadstools and puffballs similar.
.....
38. Apart from loss of school education, give any **one** other effect of teenage pregnancy.
.....
39. Mention any **one** physical change that takes place in the presence of heat.
.....
40. How is the diaphragm of a lens camera similar to the Iris of the human eye?
.....



SECTION B: 60 MARKS

Question 41 to 55 carry four marks each.

41. (a) State any **two** ways in which mosquitoes transmit diseases to humans.

(i)

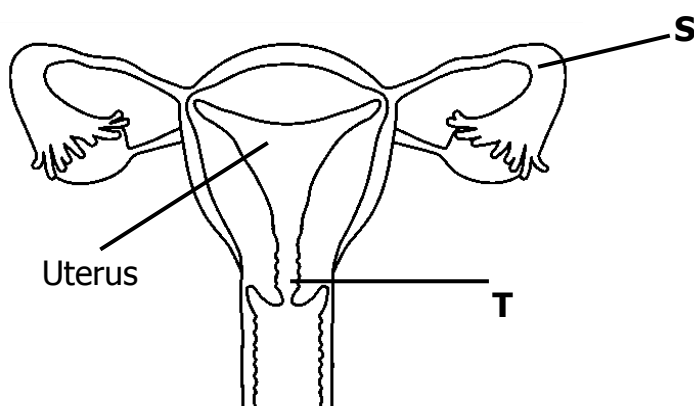
(ii)

(b) Give any **two** ways of controlling mosquitoes from spreading diseases to humans.

(i)

(ii)

42. The diagram below is of a female reproductive system. Study and use it to answer the questions that follow;



(a) Which sexually transmitted disease leads to blockage of part marked **S**?

.....

(b) Name the reproductive disorder in which implantation takes place in the part marked **S**.

.....

(c) What is the function of part marked **T**?

.....

(d) Give **one** health practice which can help to keep the above reproductive system healthy.

.....

43. (a) Write down **two** methods of harvesting root crops.

(i)

(ii)

(b) State **one** characteristic of root crop pests.

.....

(c) Apart from crop rotation, give any **one** other way of controlling root crop pests in the garden

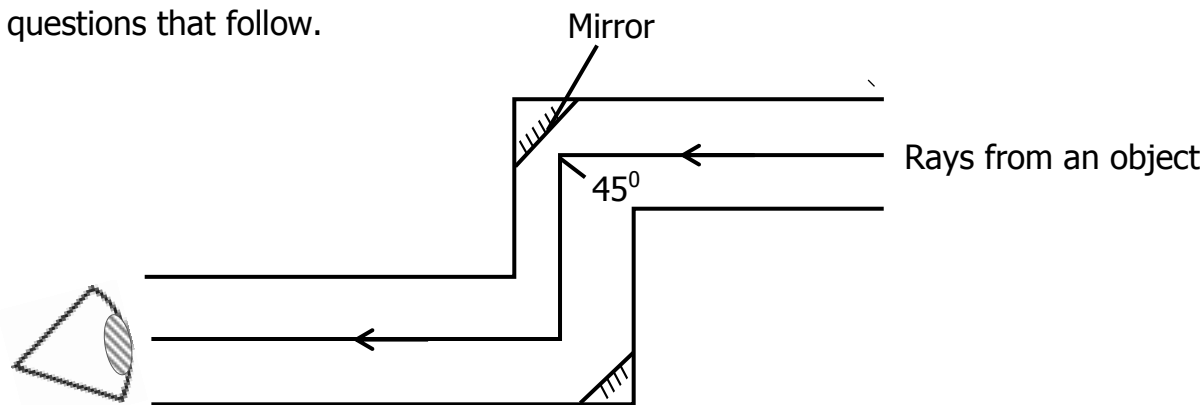
.....



44. (a) Give any **two** examples of an energy resource from plants.
(i)
(ii)
- (b) State **two** characteristics of renewable resources.
(i)
(ii)
45. (a) Which group of non-flowering plants reproduces by seeds?
.....
- (b) How is the reproduction of a bean plant different from that of a moss?
.....
- (c) Give any **two** examples of plants that belong to the group you have named above.
(i)
(ii)
46. (a) To which type of change does each of the following belong;
(i) Moulting of insects
.....
(ii) Burning of wood into ash.
.....
- (b) Give any **two** ways in which physical change is important to a man.
(i)
(ii)



47. The diagram below shows an instrument that uses light. Study and use it to answer questions that follow.



- (a) Name the instrument shown in the diagram above.
.....
- (b) Under which principle does the above instrument work
.....
- (c) What name is given to the mirrors used in the above instrument?
.....
- (d) State any **one** importance of the above instrument.
.....
48. (a) Give any **two** ways in which Primary Health Care [PHC] is an important programme in the community.
(i)
(ii)
- (b) State any **two** reasons why it is important for schools to have a school health committee.
(i)
(ii)
49. In the table below, part **A** shows a poultry disease and part **B** shows the symptoms of the diseases.

A	B
DISEASES	SYMPTOMS
Coccidiosis	Pecking effect
Pneumonia	Tiny wounds on the comb and wattle
Gumboro	Bloody diarrhea
Fowl pox	coughing

Write down the correct symptoms to the disease in the space provided.

- (a) Coccidiosis
- (b) Pneumonia
- (c) Gumboro
- (d) Fowl pox

50. (a) To which group of invertebrates does a snail belong?

.....

(b) Give **two** characteristics of a snail as an animal.

(i)

(ii)

(c) State **one** way in which snails may be dangerous to humans.

.....

51. (a) Write **one** example of each of the following.

(i) Tooth disease

(ii) Tooth disorder

(b) Apart from brushing of teeth, give **one** other practice that can keep the teeth in good working conditions.

.....

(c) How does brushing of teeth help to prevent teeth diseases.

.....

52. (a) Give any **two** ways of preparing water for washing clothes at home.

(i)

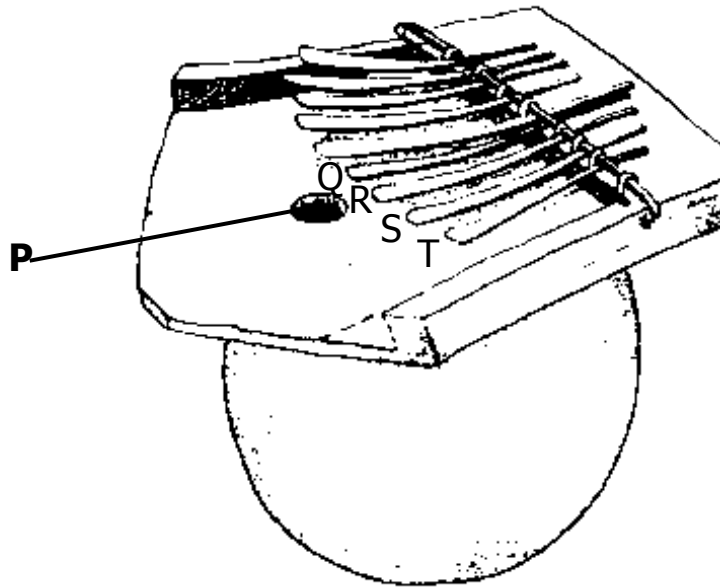
(ii)

(b) State the importance of the following practices in the washing of clothes at home.

(i) Soaking

(ii) Rinsing

53. The diagram below is of a musical instrument. Study and use it to answer questions that follow.



- (a) Name the group of musical instruments to which the instrument above belongs.

.....

- (b) How is part marked **P** important on the music instrument above?

.....

- (c) Why does part marked **T** produce sound of the highest pitch?

.....

- (d) How can the pitch of the above instrument be varied?

.....

54. (a) Write down any **two** examples of health concerns in our communities

(i)

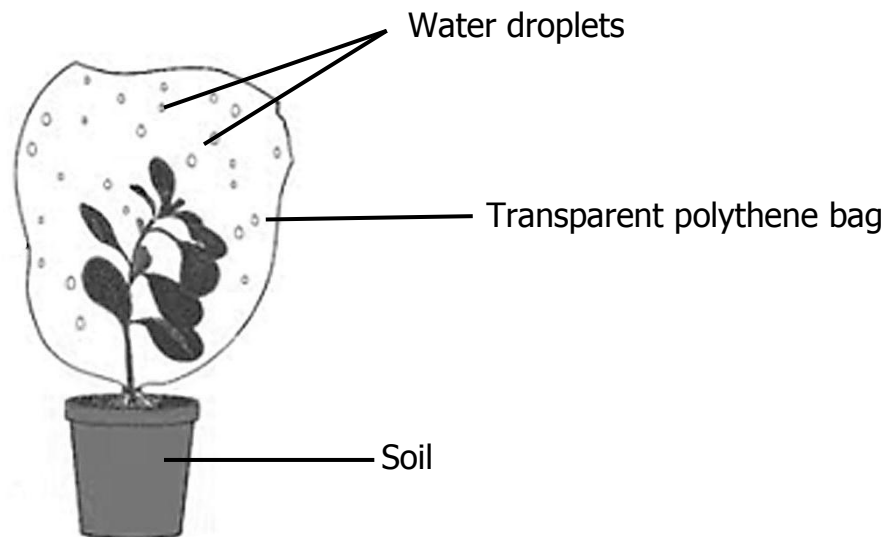
(ii)

- (b) State any **two** activities done to address lack of health education in our communities

(i)

(ii)

55. The diagram below shows an experiment about plants. Study and use it to answer the questions that follow.



- (a) Which process in the human beings is similar to the process above?

.....

- (b) What is the importance of a polythene bag in the above diagram?

.....

- (c) Give any **one** way in which plants control the process above in the environment.

.....

- (d) How does humidity affect the rate of the above process?

.....

