



**PERFECT EDUCATION SERVICES - KAMPALA**  
**PRIMARY SEVEN PRE PLE SET THREE EXAMINATION**  
**2022**

**INTEGRATED SCIENCE**

**Time Allowed: 2 hours 15 minutes**

Index No.

EMIS No.						Personal No.		

Candidate's Name .....

Candidate's Signature.....

EMIS No. ....

District Name .....

**Read the following instructions carefully:**

1. This paper has two sections A and B.  
section A has 40 questions and section B has 15 questions.
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 and diagrams will not be marked.
4. Unnecessary changes in your work may lead to loss of marks.
5. Any 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 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		

Turn Over

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## SECTION A: 40 MARKS

Questions 1 to 40 carry **one** mark each.

1. Which body organ is greatly affected by alcohol?

2. Mention any **one** insect that does not lay eggs.

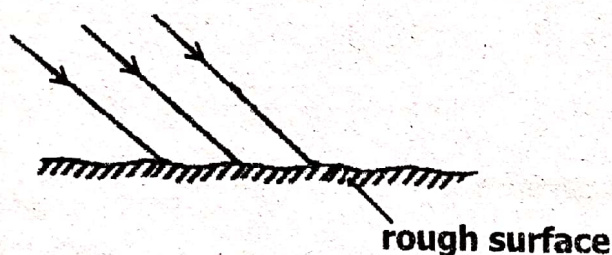
3. How does the circulatory system help the human body to produce energy?

4. Give any **one** importance of electricity to people.

5. How do crop farmers make use of the energy from the sun?

6. Apart from germs, write any **one** other cause of common sicknesses at home.

The diagram below shows a property of light. Study and use it to answer question 7 and 8.



7. Complete the diagram above correctly.

8. What type of reflection is shown above?

9. Which material is used to separate a mixture of iron filings and sand?

10. Why does the stamen of a maize plant mature earlier than the pistil?

11. By what process do plants make their own food?

12. Which part of a caterpillar has a similar function a spur on a cock?

13. State any **one** difference between simple leaves and compound leaves.



14. Give the first aid administered to a casualty with a burnt hand.

15. Why are telephone wires fixed sagging between poles?

16. State any **one** danger of taking an under dose of prescribed drugs.

17. How is hydrochloric acid useful in the digestion of proteins?

18. Which component of blood transports materials around the body?

19. Give any **one** way of reducing friction apart from lubrication.

20. What is the danger of aedes mosquitoes to human health?

21. Apart from soap, write **one** other material used to kill germs found on hands.

22. Give any **one** way water is used as an energy resource.

23. How are air sacs adapted to their role of gaseous exchange?

The diagram below shows methods of harvesting trees.  
Study and use it to answer questions 24 and 25.



24. Which method of harvesting tree resources is labeled **W**?

25. State any **one** advantage of harvesting trees using the method labeled **X**.

26. State any **one** effect of heat loss on liquids.

27. How are eggs of amphibians protected from predators?

.....  
**28.**State any **one** importance of hoof trimming in goats.  
.....

**29.**Why is sound energy able to travel through air?  
.....

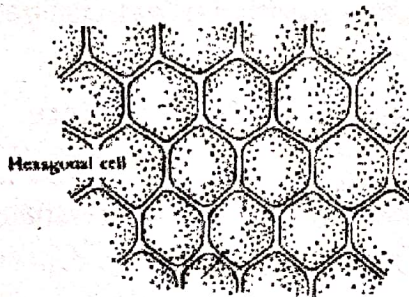
**30.**Give any **one** importance of fungi to alcohol breweries.  
.....

**31.**State any **one** application of filtration in our daily life.  
.....

**32.**Give the difference the between the role of the urinary bladder and gall bladder  
.....  
.....

**33.**State any **one** use of involuntary muscles to the body.  
.....

The diagram below shows an internal part of a beehive. Study and use it to answer question **34** and **35**.



**34.**Name the material used by bees to make the above structure.  
.....

**35.**Give any **one** importance of the shown structure to bees.  
.....

**36.**Which intestinal worm do people get by feeding on under cooked meat?  
.....

**37.**State any **one** way lenses refract light.  
.....

**38.**Apart from mulching, give any **one** way of controlling weeds in the garden.  
.....

**39.**Which group of simple machines are used to hoist flags?  
.....

**40.**Write any **one** activity done to promote maternal and child health care.  
.....

### **SECTION B: 60 MARKS**



Questions 41 to 55 carry four marks each.

41.(a) Mention any **two** examples of sea mammals.

(i).....

(ii).....

(b) State the importance of blubber to sea mammals.

(c) Apart from sea mammals, give **one** other group of mammals that give birth to live young ones.

42.(a) Name the type of teeth with a;

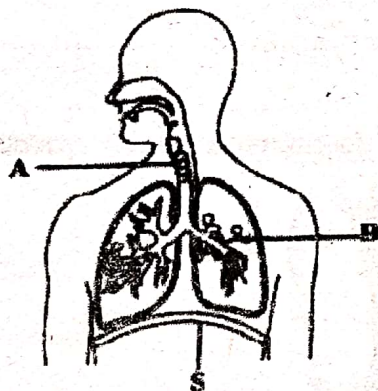
(i) sharp and pointed edge .....

(ii) broad and blunt surface .....

(b) Apart from tooth decay, mention **one** other teeth disease.

(c) How does regular brushing of teeth help to control tooth decay?

43.The diagram below shows the structure of the respiratory system. Study and use it to answer questions about it.



(a) Name the parts marked **A** and **B**.

(i) **A** : .....

(ii) **B** : .....

(b) Using an arrow on part **S**, show the movement of part **S** during inhalation.

(c) Give any **one** bad health habit that destroys the respiratory system.

44.(a) Mention any **two** classes of essential drugs.

(i).....

(ii).....

(b) Give any **one** situation where essential drugs can be harmful to human health.

(c) Why should essential drugs be kept under cool conditions?

45.(a) Give **one** difference between air and wind.

(b) Which component of air helps:

(i) plants to make food

(ii) to preserve semen in cattle

(c) State any **one** way too much wind destroys the environment.

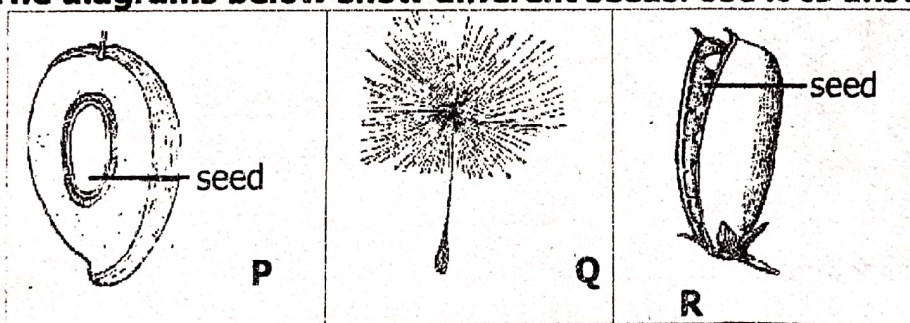
46.(a) Which component of soil makes it fertile?

(b) By which process is soil formed from rock particles?

(c) How do earthworms depend on soil?

(d) State any **one** way bush fallowing improves soil fertility.

47.The diagrams below show different seeds. Use it to answer questions about it.



(a) How are seeds labeled **P** and **Q** dispersed?

(i) **P**

(ii) **Q**

(b) Name the structures that enable seed **Q** to be dispersed by the above agent.

(c) Give any **one** adaptation of seed **R** to fruit and seed dispersal.

48.(a) In which state of matter does heat travel by convection?



(b) Give any **two** ways heat transfer by convection is useful in our daily life.

(i).....

(ii).....

(c) Apart from convection, give **one** other method of heat transfer in matter.

49.(a) Give any **two** examples of faecal diseases.

(i).....

(ii).....

(b) Give any **two** ways of controlling the spread of faecal diseases apart from proper disposal of faeces.

(i).....

(ii).....

50. Complete the table below about immunization correctly.

Disease	Vaccine	Age	site
(i) .....	BCG vaccine	At birth	(ii).....
Measles	Measles vaccine	(iii) .....	Left upper arm
Whooping cough	(iv) .....	6,10,14 weeks	Left upper thigh

51.(a) Give the use of the following components of the first aid kit.

(i) Safety pins .....

(ii) Iodine solution .....

(b) Why is a hard object placed in the mouth of a convulsing casualty?

.....

(c) Name the accident where '**kiss of life**' is administered to casualties.

.....

52.(a) Mention any **two** cattle management practices that controls inbreeding.

(i).....

(ii).....

(b) Write any **one** example of cattle endo parasites.

.....

(c) State any **one** way of controlling cattle endo parasites.

.....

53.(a) Which body system is responsible for production of gametes?

.....

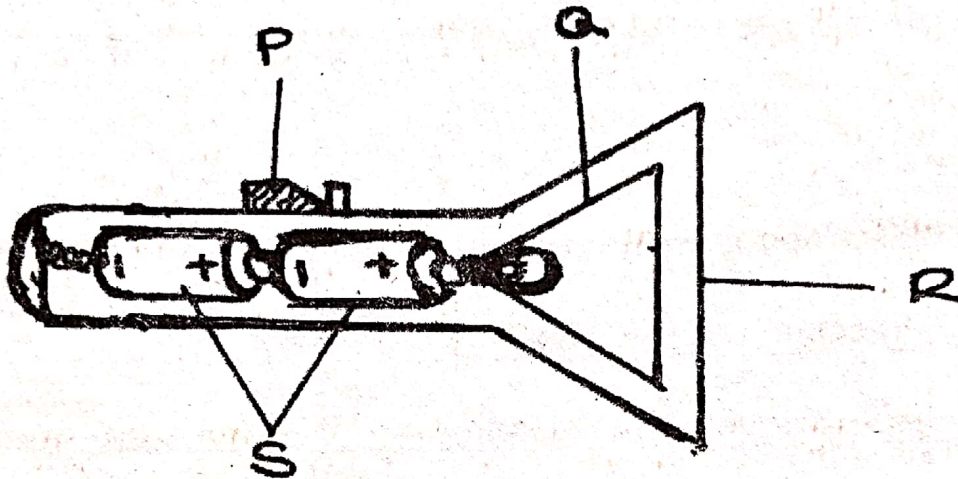


(b) Name the primary sex organ of female humans.

(c) Give any **one** primary sex characteristic that occurs in both boys and girls.

(d) Where in humans does implantation take place?

54. The diagram below shows a torch. Use it to answer questions that follow.



(a) Identify the part labeled **P**.

(b) How does part marked **Q** affect light produced by the bulb?

(c) Why is part **R** made of a transparent glass?

(d) How can the brightness of light in the above torch be increased?

55. (a) Name the type of blood vessels made of thin walls.

(b) Mention any **two** useful materials transported by blood.

(i).....  
(ii).....  
(c) Give the similarity in function between the pulmonary artery and aorta.