



# P.L.E 2024 BLUEPRINT ITEM

## INTEGRATED SCIENCE

*Time allowed: 2 Hours 15 Minutes*

Random No.						Person No.		

Candidate's Name .....

Candidate's Signature .....

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 done using a blue or black ball-point pen or fountain pen.
4. Unnecessary changes 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 fill anything in the boxes indicated: **“For Examiners’ Use Only”** and those inside the question paper.

FOR EXAMINERS’ USE ONLY		
Qn. No.	Marks	EXRS’ NO.
01 -10		
11- 20		
21 - 30		
31 - 40		
41 - 43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

Nerds Examination Series

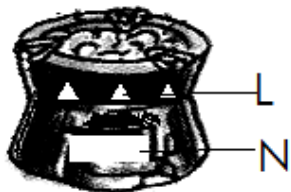
**Turn Over**

Whatsapp 0789265871

## SECTION A (40 MARKS)

1. Name the germ that causes sleeping sickness.  
.....
2. Give one function of leaves to a plant.  
.....
3. What name is given to eggs of lice?  
.....
4. Name the type of skeleton that is found outside the body of an organism.  
.....
5. Name one pest that destroys roots of root tuber crops.  
.....
6. What state of matter is ghee at room temperature?  
.....
7. Give one reason why cockroaches are a threat to crawling babies.  
.....
8. How is reproduction in cow peas similar to that one in coniferous plants?  
.....
9. Write one activity that can be done by a farmer to improve the quality of crop yields.  
.....
10. State one block in a food path.  
.....
11. Why is immunisation of children important in Uganda?  
.....
12. Give one reason why people installing electricity should wear rubber gloves in their hands.  
.....
13. Why should young boys abstain from sex?  
.....
14. What type of farming should a farmer use in order to harvest both crops and wood?  
.....

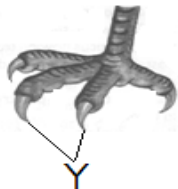
*The diagram below is of a charcoal stove. Use it to answer questions that follow.*



15. How important is the hole N in the charcoal stove?  
.....
16. Why do objects weigh less in water than in air?  
.....
17. State the importance of boiling water for drinking.  
.....

18. State one way of preventing malaria without using chemicals.  
.....
19. Apart from an ostrich, name one other example of flightless birds.  
.....
20. Suggest one way of maintaining proper functioning of the body organs.  
.....
21. Distinguish between a fuse and a switch according to their function  
.....

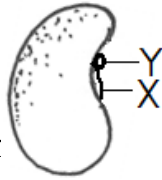
***The diagram below is of a foot of a bird. Use it to answer questions 22 and 23.***



22. Name structure marked with letter Y.  
.....
23. Suggest one example of birds with such a foot.  
.....
24. State one natural cause of environmental degradation.  
.....
25. Identify the smallest bone in the body.  
.....
26. To which group of simple machines does an axe belong?  
.....
27. Give one way in which antelopes protect themselves from predators.  
.....
28. Why is it not advisable to store cooked food in a room where domestic animals live?  
.....
29. Identify one domestic animal man can use to protect himself.  
.....
30. How is a duck billed platypus similar to a duck?  
.....
31. Compare echo and an image in light.  
.....
32. Apart from humus and living organisms, name other component of soil.  
.....
33. What kind of energy is possessed by books on the table in your class?  
.....
34. Suggest one factor one should consider when choosing a site for an apiary.  
.....
35. Define volume of sound.  
.....

36. Which part in the mammalian eye does the same work as the film in the camera?

.....  
*Below is a diagram of a bean seed. Use it to answer questions that follow.*



37. Name the part r

38. Explain how important is part Y to the seed during germination.

39. State the part of the flower that holds the anther head.

40. Where in the human digestive system does digestion of food end from?

### SECTION B (60 MARKS)

41. (a) What are monotremes?

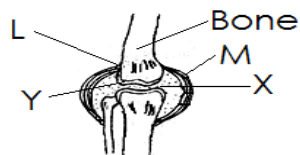
.....  
(b) Identify any two examples of monotremes.

i) .....

ii) .....

(c) How are monotremes different from elephants?

42. *The diagram below shows a human joint. Use it to answer questions that follow.*



(a) Name parts marked Y and M.

i) Y: .....

ii) M: .....

(b) Explain how part X is important at the joint.

.....  
.....  
(c) What type of joint is shown in the diagram above?

43. (a) Give one reason why a magnet cannot attract a piece of wood.

.....  
.....  
(b) Identify any three practices that can lead to the destruction of a magnet.

i) .....

ii) .....

iii) .....

44. (a) What is a vector?

.....

(b) Which vector spreads malaria germs to human beings?

.....

(c) Suggest two ways how people can control the spread of malaria germs.

i) .....

ii) .....

45. (a) What do you understand by the term friction?

.....

(b) How can friction be an advantage to a bicycle rider?

.....

(c) Suggest two ways how one can reduce friction in moving bodies.

i) .....

ii) .....

46. Match items in list A with those in list B correctly.

**A**

Skin

Lungs

Skull

Heart

**B**

valves

brain

carbon dioxide

sweat

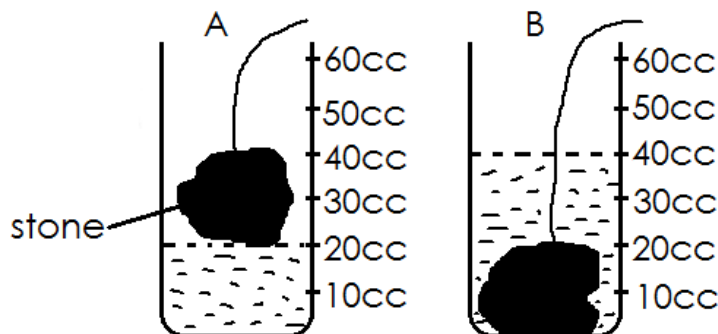
i) Skin: .....

ii) Lungs: .....

iii) Skull: .....

iv) Heart: .....

47. *An experiment below was done by a P.5 class. Use it to answer the questions that follow.*



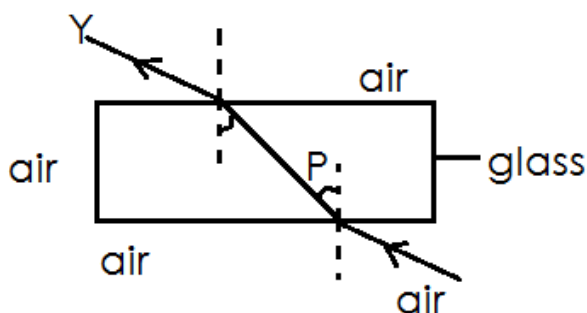
(a) Which method of finding volume is illustrated above?

.....

(b) If the stone has a density of 2g/cc, find its mass.

48. (a) Identify any two common sex deviations in the community.  
 i) .....  
 ii) .....  
 (b) List down two sexually transmitted diseases caused by a virus.  
 i) .....  
 ii) .....  
 49. (a) Write down any two types of cattle reared in Uganda.  
 i) .....  
 ii) .....  
 (b) State two requirements for starting a livestock farm.  
 i) .....  
 ii) .....

*The diagram below shows refraction of light through a transparent glass block. Use it to answer questions that follow.*



- (a) Name parts labelled P and Y.  
 i) P: .....  
 ii) Y: .....  
 (b) Write down any two ways how refraction can be dangerous to people.  
 i) .....  
 ii) .....  
 51. (a) Give immunisation sites for the following vaccines.  
 (i) DPT .....  
 (ii) BCG .....  
 (b) At what age is measles vaccine immunised to children?  
 .....  
 (c) Name one vaccine which is administered to babies at birth.  
 .....  
 52. (a) What are energy resources?  
 .....  
 .....

(b) Identify the major source of heat energy in the environment.

.....

(c) Name any two common non-renewable resources in the environment.

i) .....

ii) .....

53. Write short notice on the following words.

(a) Silting:

.....

.....

(b) Ovulation:

.....

.....

(c) Pasteurisation:

.....

.....

(d) Perspiration:

.....

.....

54. (a) Explain why a first aid box should be painted white.

.....

.....

(b) Differentiate a first aid box from a first aid kit.

.....

.....

.....

(c) Describe two factors which may lead to fainting.

i) .....

ii) .....

55. (a) How do we call a person who is recovering from sickness?

.....

(b) Identify three causes of sicknesses in our community.

i) .....

ii) .....

iii) .....

***END***

