

NAKASANA JOINT EXAMINATIONS

PRIMARY LEAVING MOCK EXAMINATION 2023

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

NAME: _____

INDEX NO.:								
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SCHOOL: _____

STREAM: _____ DATE: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully.

1. This paper is made of two sections A and B.
2. Section A has 40 questions (40 marks).
3. Section B has 15 questions (60 marks).
4. Attempt all questions. All answers to both section A and B must be written in the space provided.
5. All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work may be done in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.

For official use only:

SECTION	EXRS. MARKS	T/L MARKS	OFFICIAL
A			
B			
TOTAL			

SECTION A (40 marks)

1. Name the gas that is used in the preservation of soft drinks.

.....
.....

2. State the danger of houseflies to human health.

.....
.....

3. Mention any one way excretion is important to the human body.

.....
.....

4. Why is a sugar cane not regarded as a stem tuber?

.....
.....

5. Name the breed of goats that is reared for mainly mohair production

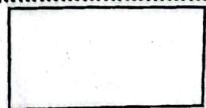
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6. How does deforestation affect the production of hydroelectricity?

.....
.....

7. State one way a traditional healer makes use of plants in the environment.

.....
.....



8. How Is ecdysis important to Insects?

.....
.....

9. Name any one example of a synthetic fibre.

.....
.....

10. How does slashing of tall grass around the home control the spread of malaria?

.....
.....

11. Identify the method of preserving fish that does not involve heat energy.

.....
.....

12. Name the type of clouds that are nearest to the earth.

.....
.....

13. Convert 85°F to centigrade scale

.....

14. How best can you help a P6 pupil who is dehydrated?

.....
.....

15. Why are gaps left between rails on a railway line?

.....
.....

16. State one way how poisoning is prevented among children at home.

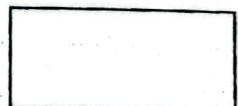
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17. How are eggs of an amphibian protected from being swept by water waves?

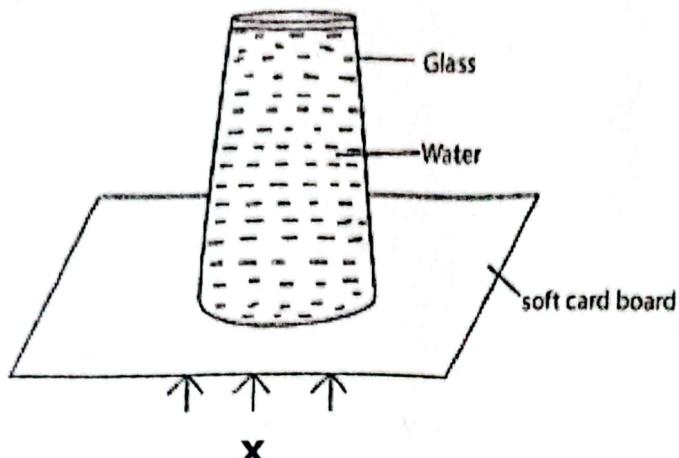
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18. Name the blood vessel that carries deoxygenated blood to the lungs.

.....
.....



The diagram below is of a property of matter. Use it to answer questions 10 and 11.



19. Name the structures labeled with letter X

.....
.....

20. What does the above experiment show about matter?

.....
.....

21. Why do hookworms lead to anaemia in the human body.

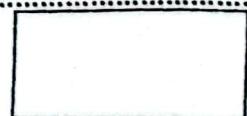
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22. State one way pests affect root crops in the garden.

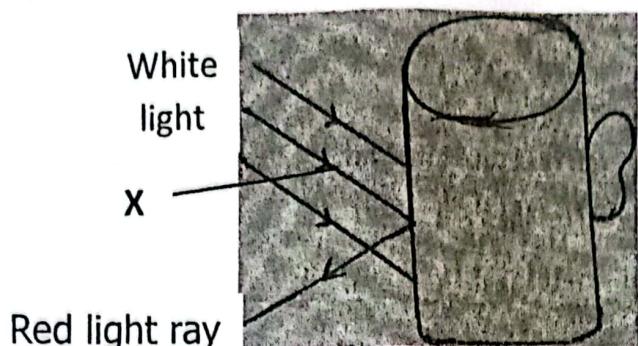
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23. Why should infants be immunized against some diseases?

.....
.....



The diagram below shows a reflection of light colours in the environment. Use it to answer questions 16 and 17



24. Name the ray of light shown by letter X

.....
.....

25. What colour is the cup above?

.....
.....

26. State the structure in the human body that connects a bone to a bone.

.....
.....

27. Name the process by which the root hairs absorb water and mineral salts from the soil.

.....
.....



28. How is a wind sock useful in the air field or airport?

.....
.....

29. In which way is a gecko able to control malaria in a home?

.....
.....

30. Name the part of the human ear where actual hearing takes place

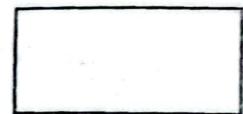
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31. State the life skill that adolescents need to safeguard themselves from getting HIV/AIDS.

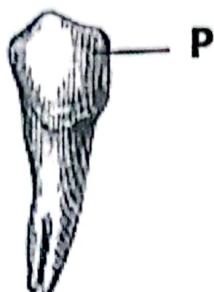
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32. What name is given to manufactured chemical substances added to the soil for proper growth of crops in the garden?

.....
.....



The diagram below shows a human tooth. Use it to answer questions 32 and 33



33. How is the tooth above adapted to its function?

.....
.....

33. Name the acid that is responsible for the formation of the cavity on part marked P.

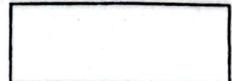
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34. Mention any one way people make use of reflection of light in their daily life.

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35. Why are animals regarded as renewable resources?

.....
.....



36. How do animals benefit from the process of photosynthesis?

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.....

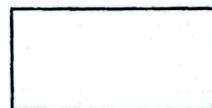
38. Give any one reason HIV/AIDS is more common in females than males

.....
.....

39. State any one way a father can ensure food security at home.

.....
.....

40. In the space provided below, draw a diagram to show binary fission in a bacterium.



SECTION B

41. a) State the meaning of the term energy resource.

.....
.....
.....

b) Give a reason why water is called an energy resource

.....
.....
.....

c) Write one way we can conserve energy resources from plants

.....
.....
.....

d) Name any one energy resource from plants apart from wood fuel

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.....
.....

42. a) Mention any one way HIV/AIDS spreads from one person to another.

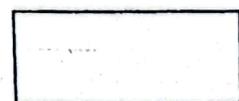
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b) How does HIV/AIDS affect the circulatory system in the human body?

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.....
.....

c) In which way can the mother protect the unborn baby from getting HIV/AIDS?

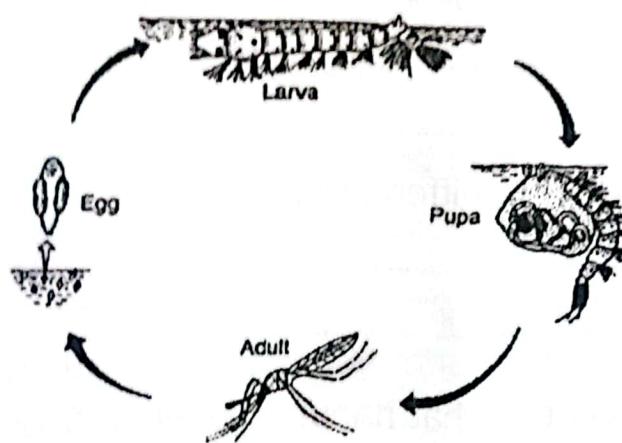
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43. d) Why is guidance and counselling done before testing couples for HIV?

.....
.....

43. The diagram below shows the life cycle of a mosquito. Use it to answer questions that follow



a) Name the type of mosquito whose life cycle is shown above.

.....
.....

b) Which disease is spread by the mosquito mentioned in a) above.

.....
.....

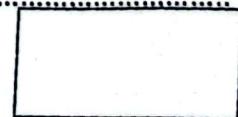
c) Write any two ways of controlling mosquito bites at home.

i)

ii)

44. a) Why can't sound travel through a vacuum?

.....
.....



b) Name the instrument on the ship used to measure the depth of the sea.

.....
.....

c) What factor of pitch is catered for through the following ways?

i) Making a bow harp with strings of different lengths.

.....
.....

ii) Filling bottles with water at different levels.

.....
.....

45. a) Name the type of change that happens when a P7 girl develops breasts.

.....
.....

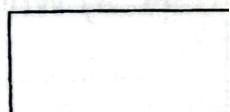
b) How is the type of change stated in a) above different from a physical change?

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.....

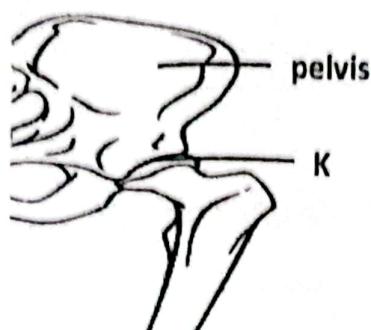
c) State any two examples of chemical changes in the environment.

i)

ii)



46. The diagram below shows a type of joint. Use it to answer questions that follow.



a) Identify the type of joint labelled K.

.....
.....

b) Apart from the hip, name any other part of the body where the above type of joint can be found.

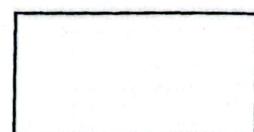
.....
.....

c) Write any one way joints are important in the human body.

.....
.....

d) Mention any one way of keeping the skeletal system in its good working condition

.....
.....



47. Goat farming is one of the projects done in the community for income.

- a) State one way goat keeping project is of use to the farmer apart from selling.
-
.....

- b) Give any one advantage of housing goats in the farm.
-
.....

- c) Mention any two qualities of a good house for sheltering goats in the farm.

- i)
- ii)

48. Match the parts of the eye below with similar functions as those of a photographic camera.

Eye

Photographic camera

Eye lids

Film

Retina

Aperture

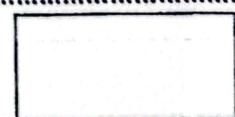
Iris

Shutter

Pupil

Diaphragm

- i) Eyelids
- ii) Retina
- iii) Iris
- iv) Pupil



49. a) State the meaning of the term transpiration.

.....
.....

b) Write any two dangers of transpiration to the environment.

- i)
- ii)

c) Mention any one factor that affects the rate of transpiration.

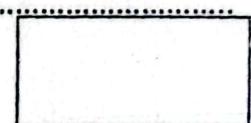
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.....

50. Study the table below carefully and complete it correctly

Disease	Vaccine	Site
Measles	Measles vaccine
Haemophilus influenza b	Left upper arm
.....	PCV	Left upper thigh
Tuberculosis	iv).....	Right upper arm

51. a) How are the root tubers different from stem tubers?

.....
.....
.....



b) State any one other way of caring for root tuber crops apart from weeding and watering.

.....
.....

c) Give two examples of root tubers which are propagated by planting seeds.

- i)
ii)

52. a) Write VIP in full as used in sanitation.

.....
.....

b) Which important feature in a VIP latrine traps flies until they die.

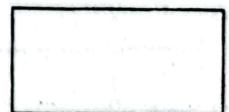
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c) Give one way of keeping a VIP latrine clean.

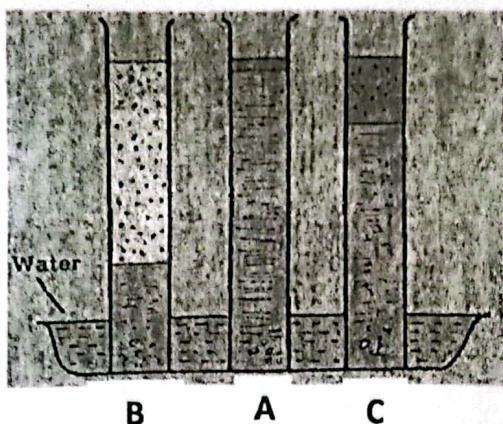
.....
.....

d) Apart from a VIP latrine, give one other type of latrine

.....
.....



53. The diagram below shows a property of soil. Use it to answer questions that follow.



a) Name the property of soil shown above

.....
.....

b) Why did the water in soil sample A rise as shown in the experiment.

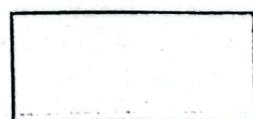
.....
.....

c) State any two uses of soil sample labelled with letter C

- i)
- ii)

54. a) By what process do food particles move through the alimentary canal?

.....
.....



b) Mention one role played by each of the following parts of the digestive system of a human being.

i) Stomach.

ii) Ileum.

c) How does the liver regulate the amount of sugars in blood?

.....
.....

55. a) Why is alcoholism considered to be an antisocial behaviour?

.....
.....

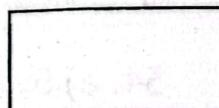
b) Apart from alcohol, state any two other examples of commonly abused drugs.

i)

ii)

c) Mention any one way of managing antisocial behaviour that occur at school.

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.....



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MATHEMATICS

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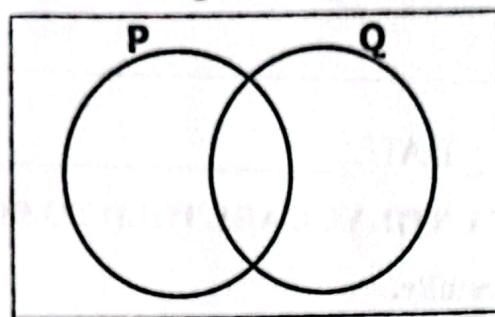
SECTION	EXRS. MARKS	T/L MARKS	OFFICIAL
A			
B			
TOTAL			

SECTION A : (40 Marks)

1. Work out: $237 + 120$

2. Write in words 5,092.

3. On the Venn diagram below, shade $(P \cup Q)^c$



4. Find the lowest common multiple (LCM) of 12 and 18.

5. Work out: $\frac{2}{3} \div \frac{2}{9}$

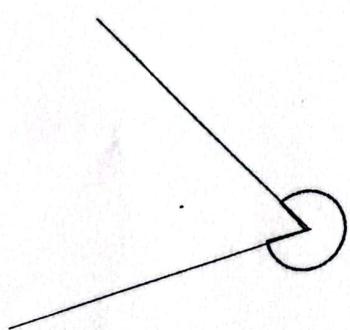
6. Simplify: $5^4 \div 5^2$
7. Subtract: $4p + 3$ from $7p - 5$
8. Find the median of 80, 55, 90, 55 and 60.
9. Work out: $3 \div 4 = \underline{\hspace{2cm}}$ (finite 7)
10. Using a pair of compasses, a ruler and a pencil only. Construct an angle of 150° in the space below.

11. Express $0.1212\dots$ as a common fraction in its simplified form.

12. In the space below draw a net of a cuboid.

13. Given that the bearing of A from B is 210° , find the bearing of B from A.

14. Using a pair of compasses, a ruler and a pencil only, bisect the reflex angle below.

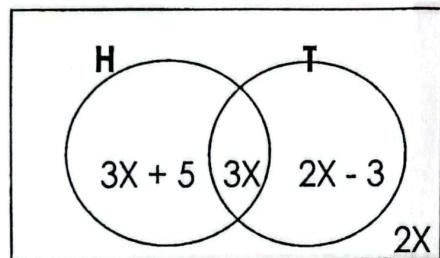


15. Write 2605 in standard form.
16. The price of a shirt is sh.45, 000. After a discount, a customer paid sh. 39,000. What was the discount?
17. The interior angle sum of a regular polygon is 540° . How many sides has the polygon?
18. A dice is tossed once. What is the probability that a composite number appears on top?

19. Tom was facing North East. If he turned clockwise through an angle of 225° , what is his new direction?
20. A car travelled at a speed of 80km/hr for $2\frac{1}{2}$ hours. What distance did the car cover?

SECTION B

21. The Venn diagram below shows the number of pupils who like Hockey (H) and Table tennis (T). Use it to answer questions that follow.



- a) If 20 pupils don't like Table Tennis, how many pupils like both games? **(3 marks)**

b) Find the probability of choosing a pupil at random who likes only one game. **(2 marks)**

22. (a) Subtract $1101_{\text{two}} - 11_{\text{two}}$ **(2 marks)**

b) Given that $P^2 + P^2 = 32$. Find the value of P. **(3 marks)**

23. Find the perimeter of a square garden whose area is 81m^2 . **(4 marks)**

24. The table below shows Amon's shopping bill. Use it to answer the following questions.

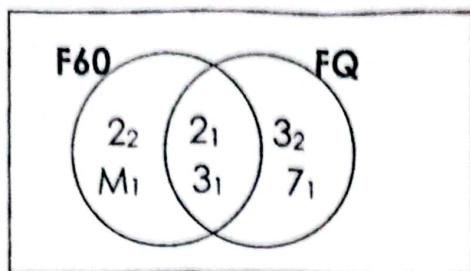
Item	Quantity	Unit cost	Amount
Beans	3kg	Sh. 5,000 per kg	Sh. _____
Maize flour	_____ kg	Sh. 3,200 per kg	Sh. 12,800
Salt	600g	Sh. ____ per kg	Sh.900
Total expenditure			Sh._____

a) Complete the table above.

(4 marks)

b) If Amon was given a discount of 10%, how much did he pay?
(2 marks)

25. Use the Venn diagram below to answer questions that follow.



a) Find the value of:

i) M_1 (2 marks)

ii) Q (2 marks)

b) Find the G.C.F of F60 and FQ. (2 marks)

26. In a library there are 108 books. $\frac{4}{9}$ of the books are Maths, $\frac{1}{6}$ of the remainder are English and the rest are Science books.

a) How many more Science books than English had Tom?

(3 marks)

b) Express the number of Maths books as a ratio of the total number of books. **(2 marks)**

27. a) Using a ruler, a pencil and pair of compass only. Construct a parallelogram PQRS where angle PQR = 120° , PQ = 8 cm and QR = 5cm. **(5 marks)**

b) Measure the diagonal PR in cm. **(1 mark)**

28. Mugisha is twice as old as Mugume. In 10 years time, the difference in their age will be 18 years.
a) How old is Mugume? **(2 marks)**

b) Find their total age. **(2 marks)**

29. a) Add:

kg	g	
5	250	
<u>+ 2</u>	<u>760</u>	

(2 marks)

b) Express 5 litres as centiliters. **(2 marks)**

30. A teacher gave a test of 20 questions. He awarded 4 marks for every correct question and deducted a mark for every wrong question. If a pupil got 15 correct questions.

a) What mark did the pupil get? **(2 marks)**

b) If the pupil got 60 marks, how many questions did he get correct? **(3 marks)**

31. a) At a Forex Bureau, one dollar costs Ug. Sh. 3,800 and 1 ksh = Ug Sh. 35. How much in Uganda shillings will a tourist who has US dollar 500 get?

(2 marks)

b) If a businessman had ksh. 17,500, how many US. Dollars will he get at the same exchange rate?

(3 marks)

32. Use the equation $y = 2x - 1$, to complete the table below.

X	_____	-2	_____	2	_____
Y	3	_____	1	_____	-3

(5 marks)

END