



PACE-PREPARE A CHILD EXAMINATIONS BOARD
PACE CONSO EXAMINATION SET 7
2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random NO.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instruction 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 **16 printed pages** altogether.
3. Answer **all** the questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily 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		

SECTION A: 50 MARKS

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

1. Name the type of teeth that is missing in the milk teeth.

.....

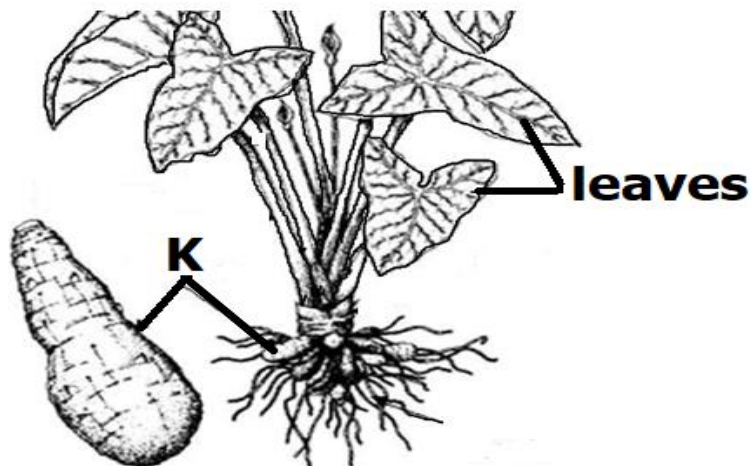
2. How does early weeding of crops control crops and diseases in gardens?

.....

3. Name the garden tool used in collecting dug weeds in the school garden.

.....

The diagram below shows an example of a common tuber. Use it to answer questions **4** and **5**.



4. What name is given to common tubers marked with letter **K**?

.....

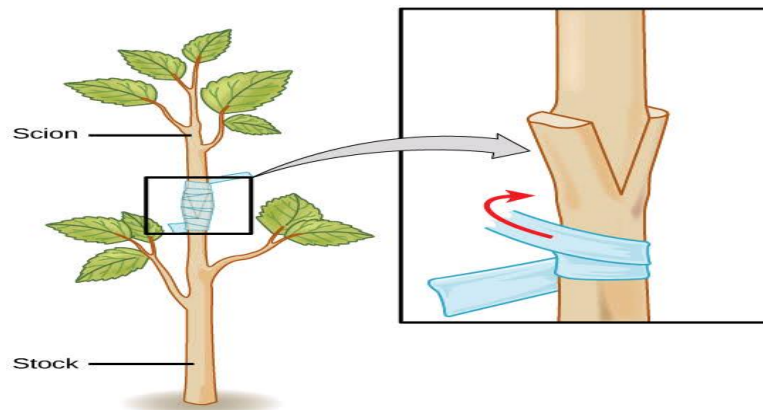
5. Identify the group of common tuber crops marked with letters **K**.

.....

6. Write any **one** of the misconceptions and myths about family planning.

.....

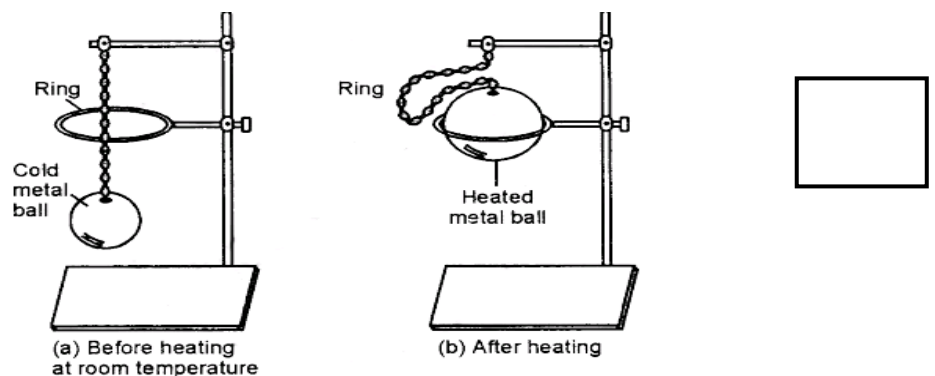
The diagram below is of a method of plant propagation. Use it to answer questions **7** and **8**.



7. Name the method of plant propagation shown in the diagram above.
.....
8. State any **one** importance of the method of plant propagation in 7 above.
.....
9. Give any **one** method of controlling crop pests and diseases.
.....
10. State any **one** reason why first class levers enable people to use effort.
.....
11. Mention any **one** indicator of starvation among children.
.....
12. By what process is lactic acid removed from human bodies?
.....
13. Write any **one** difference between light and sound energy.
.....

14. How can the principle of moments be applied in our daily life?
.....
15. Mention any **one** way in which heat transfer by convection is useful.
.....
16. State any **one** way of controlling diseases caused by fungi.
.....
17. Name the germ that is responsible for causing tetanus among children.
.....
18. State the method used to separate substances with different densities.
.....

The diagram below shows effects of heat on a metallic ball. Use it to answer questions **19** and **20**.



19. State the behaviour of a metallic ball after heat gain.
.....
20. Why did the metallic ball fail to pass through the ring as in diagram (b)?
.....
21. State any **one** responsibility of an individual in the promotion of PHC.
.....

22. Mention **one** difference between invalids and convalescents.

.....

23. Write any **one** importance of keeping healthy records on a farm.

.....

24. How are scales on the legs and toes useful to scratching birds?

.....

25. State any **one** importance of melting in our daily life.

.....

26. Identify any **one** way in which pricking out seedlings is important.

.....

27. Give the meaning of the term mixed cropping/intercropping.

.....

28. Apart from strings, give any **one** garden tool used for crop spacing.

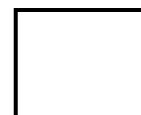
.....

29. Mention any **one** factor that leads to alcoholism among individuals.

.....

30. State any **one** proper way of caring for the human kidneys.

.....



31. In which way is conception different from pregnancy in humans.

.....

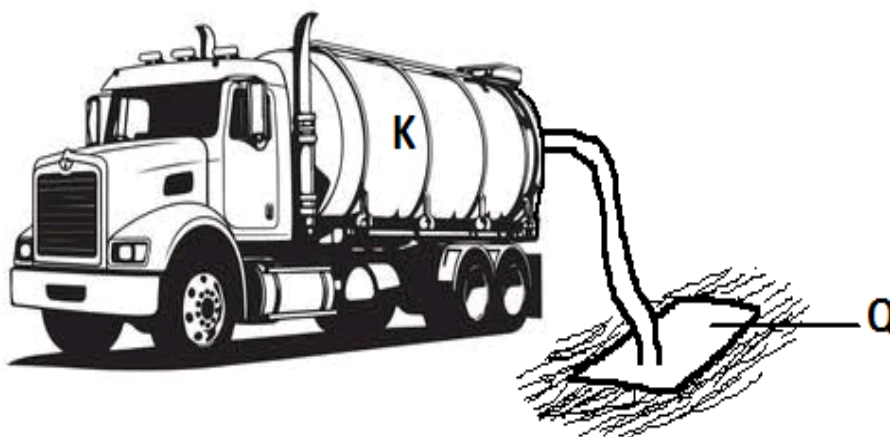
32. How are right and left ventricles of the heart adapted to their function?

.....

33. State any **one** effect of AIDS to an individual.

.....

The diagram below shows a sanitary vehicle. Study and use it to answer Questions **34**, **35** and **36**.



34. Identify the part marked with letter **K**.

.....

35. Write any **one** importance of part marked **Q** in the community.

.....

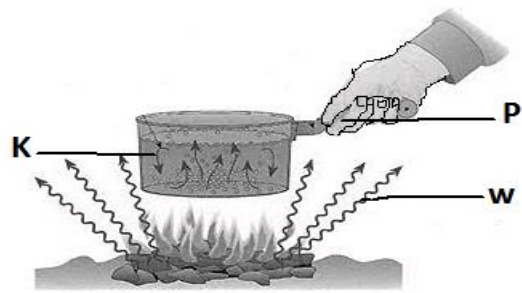
36. How does the cesspool emptier vehicle above help in the control of diarrhoeal diseases?

.....

37. State any **one** natural family planning method that prevents sperms from reaching the ova.

.....

The diagram below shows methods of heat transfer. Study and use them to answer questions **38** and **39**.



38. Name the heat transfer method marked with letter **P**.
.....
39. In which **one** way is heat transfer **W** useful in the environment?
.....
40. State any **one** effect of teenage pregnancies among people.
.....

SECTION B: 50 MARKS

Questions **41** to **55** carry four marks each

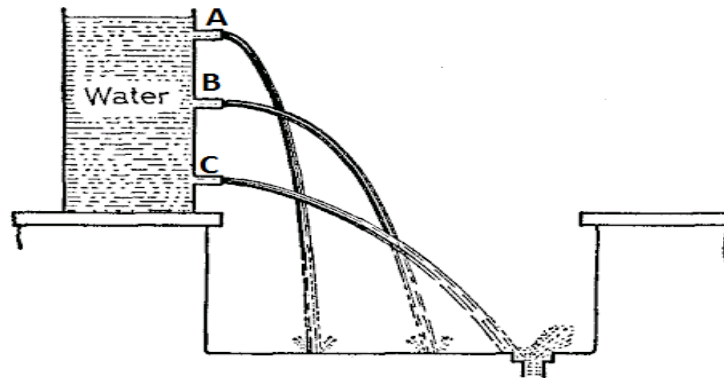


41. (a) Give the meaning of the following terms.
- (i) Convulsions.....
.....
- (ii) Near drowning.....
.....
.....
- (b) State any **one** cause of convulsions among people.
.....

- (c) State the first aid for convulsions among people.

.....

The diagram below shows an experiment for a certain property. Study and use it to answer questions **42**.



42. (a) What does the experiment above prove about liquids?

.....

- (b) Identify the tap that releases water with more strength.

.....

- (c) Provide a reason to support your response in (b) above.

.....

- (d) How can the property of liquids above be applied in our daily life?

.....

Compare the human ear with organs of hearing in other animals shown in the table

<u>Animal</u>	<u>Organ(s) of hearing</u>
Frogs	Lateral line
Snakes	Antennae/feelers
Fish	Eardrum and inner ear
Insects	Jawbone and inner ear

Frogs
 Snakes
 Fish
 Insects

43. (a) Give any **one** example of each of the following worms

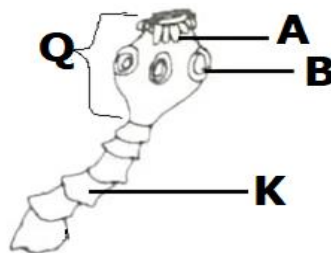
(i) Segmented worms

.....

(ii) Flat worms

.....

The diagram below shows a certain worm. Study and use it to answer **part b**.



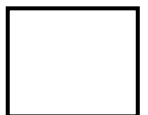
(b) Name the part marked with letter **Q**.

.....

(c) How does the above intestinal worm benefit from parts **A** and **B**?

.....

44. This question is about shadows.



(a) Give any **two** examples of objects that form shadows.

(i)

(ii)

(b) Give any **two** ways in which transparent objects are useful to people in our daily life.

(i)

(ii)

45. (a) Give the meaning of the term drug misuse.

.....

(b) Write **one** factor that leads to drug misuse.

.....

(c) How is drug misuse different from drug abuse?

.....

.....

(d) Mention any **one** way of storing drugs safely.

.....

46. Below is a diagram showing a simple machine, use it to answer questions below.



(a) Name the type of pulley shown in the diagram above.

.....

(b) State **one** use of the type of pulley shown above at schools.

.....

(c) Give any **two** ways in which the above type of pulley simplifies man's work.

(i)

(ii)

47.

(a) Identify any **one** factor considered when grouping birds.

.....

(b) State any **two** characteristics that make birds of prey suit for their mode of feeding.

(i)

(ii)

(c) Give any **one** reason for birds of prey having strong eyesight.

.....

48.

(a) Mention any **one** effect of AIDS on the following;

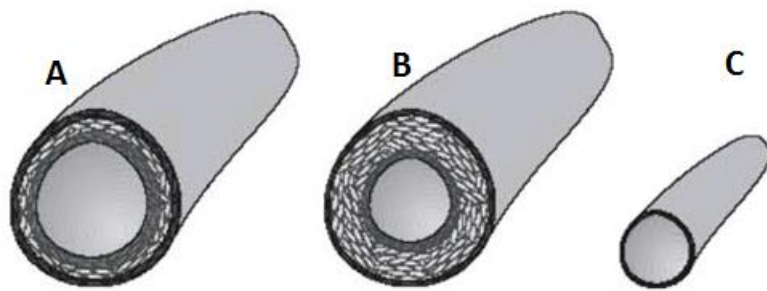
(i) Individuals

.....

(ii) Family members

.....

The diagrams below show blood vessels. use them to answer question that follow.



- (b) State **one** structural difference between blood vessels **A** and **B**.

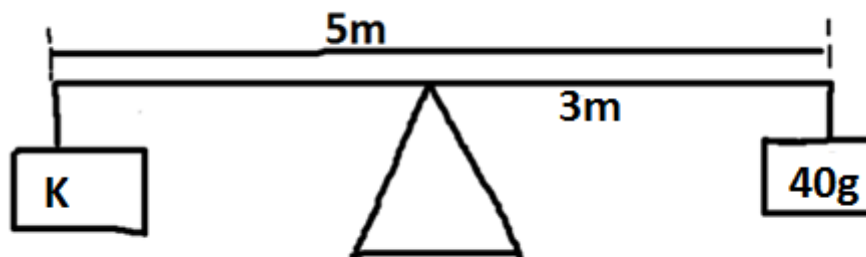
.....

- (c) How is blood vessel **C** adapted to its function?

.....

.....

49. (a) Basing on the principle of moments, calculate the value of K.



- (b) How is the principle of moments applied in our daily life?

.....

.....

50. (a) State any **two** parts of a vacuum flask that prevents heat loss by conduction.

(i)

(ii)

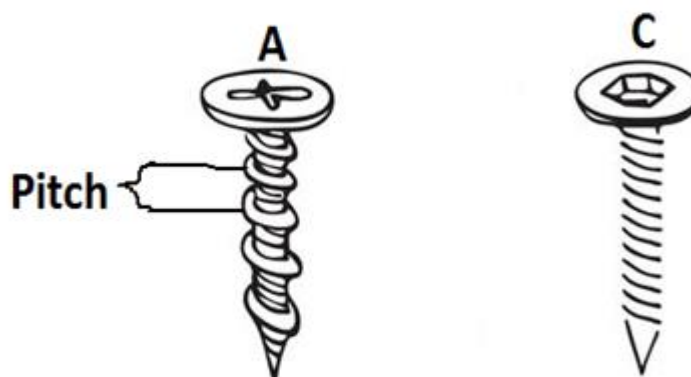
(b) State the reason why sound cannot travel through a vacuum.

.....

(c) In which way do silvered walls of a vacuum flask prevent heat loss by radiation?

.....

The diagrams below show different simple machines of the same type. Use them to answer question **51**.



51. (a) Which of the simple machine above enables people to use less effort?

.....

(b) Provide a reason to support your answer in **51 (a)** above.

.....

(c) To which group of simple machines do the above tools belong?

.....

- (d) Give the meaning of the term pitch as used in the above diagram.

.....

52.

- (a) Give the meaning of the term artificial insemination.

.....

.....

- (b) Identify any **one** instrument used to carry out artificial insemination.

.....

- (c) State any **two** advantages of artificial insemination on a farm.

- (i)

.....

- (ii)

.....

53. Complete the table showing deficiency diseases and their causes.

Deficiency disease	Cause
.....	Lack of carbohydrates.
Pellagra
.....	Lack of proteins
Beriberi

54. Briefly explain the following terms;

- (i) Child spacing

.....

.....

(ii) Family planning

.....

.....

(b) State any **two** common disorders of the reproductive system.

(i)

.....

(ii)

.....

55. You are provided with the following materials,

Three cardboards, a lit candle and a table.

Write **four** steps you will take to in an experiment to show that light travels in a straight line. (04 marks)

(i)

.....

(ii)

.....

(iii)

.....

(iv)

.....

