



PACE EDUCATION SERVICES

PRIMARY SEVEN PREPARATION SET II (MARS)

2025

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

*Answer **all** questions in this section*

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

1. Name any **one** drug of abuse.

.....

2. State any **one** common way of identifying a type of chicken kept for meat production

.....

3. State the units for measuring human body temperature on a Fahrenheit scale.

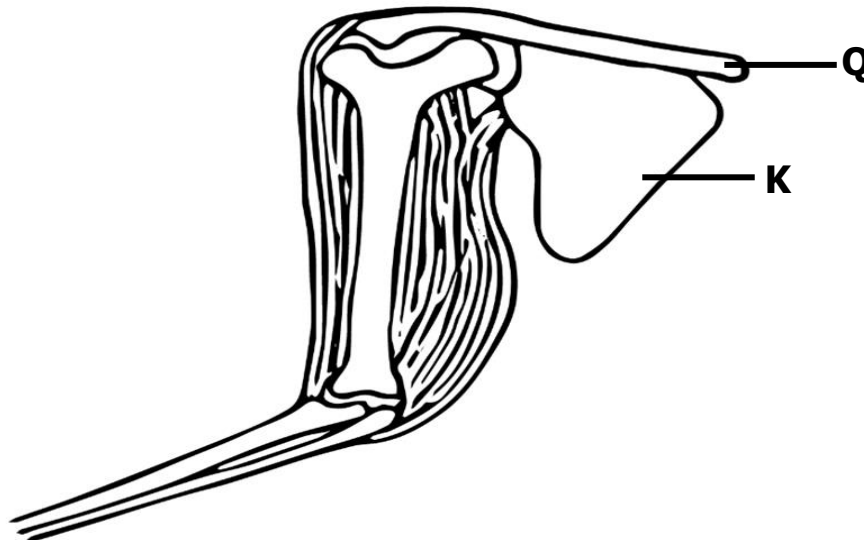
.....

4. Write down any **one** type of an underground stem.

.....

The diagram below shows a part of muscular skeletal systems. Study and use it to answer questions

5 and **6**.



5. Name the bone shown with letter **Q**.

.....

6. Identify the type of bones to which bone shown with letter **K** belongs.

.....

7. Mention any **one** way of managing wastes in the environment.
-
8. Identify the condition for seed germination that dissolves stored food in the cotyledon of bean seeds.
-
9. Name the type of bees without a stinger and develop from unfertilized eggs.
-
10. State any **one** reason why the volume of the mango is found using displacement method.
-
-
11. Identify the weighing machine that uses hydraulic fluid for measuring mass of objects in shops.
-
12. State any **one** advantage of keeping records on a rabbit farm.
-
13. Apart from strain, give any **one** other type of injury that can be managed using a stretcher.
-
14. Identify the method of preparing clean water used to obtain pure water.
-
15. Name the viral immunisable childhood killer disease that causes scars on the liver.
-



16. State the reason why human lungs have spongy like structures.

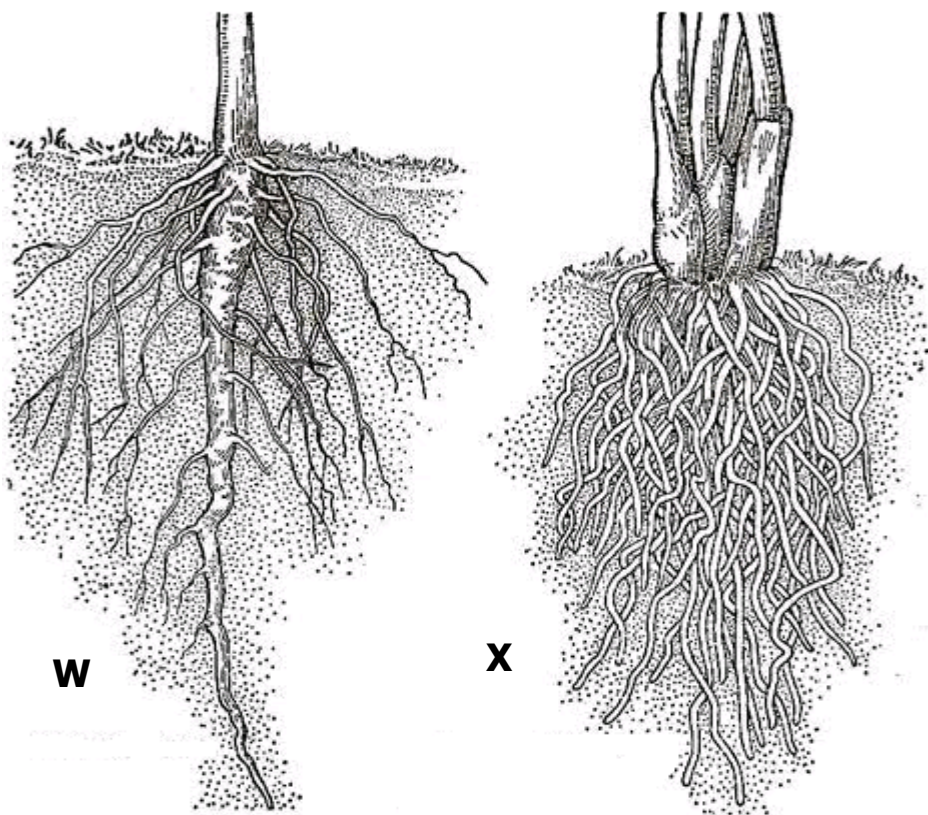
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.....

17. Mention the characteristic that allows ships to float on water even though they seem to be heavier.

.....

The diagram below shows types of root systems commonly found with crops in the community. Study and use it to answer questions **18** and **19**.



18. Name the root system shown with letter **X**

.....

19. Identify the type of crops with root system **W** accompanied with root nodules.

.....

20. State the role of saliva juice during the process of food digestion.

.....

21. Name the state of matter through heat transfer by convection is slowest.

.....

22. Give the meaning of the term **primary sex characteristics**.

.....

.....



23. Name the part of the reproductive system at the back of the testicles responsible for maturing sperms.

.....

24. Mention any **one** way in which plant propagation is important in the environment.

.....

25. State the consequence of a child lacking all food values in his/her body.

.....

26. Give any **one** reason why a Child Health Card should have the child's date of birth.

.....

27. State any **one** reason why clay soil has the highest rate of drainage.

.....

28. State any **one** way of controlling the effects of harmful materials on soil.

.....

29. Mention any **one** importance of seed formation to seed bearing non flowering plants.

.....

30. Give any **one** way in which you can tell that child has got food poisoning.

.....



The diagram below shows a fungus commonly eaten by people. Study and use it to answer questions **31** and **32**.



31. Name the part of a fungus marked **N**.

.....

32. State any **one** function of part shown with letter **M** to the above fungus.

.....

33. Apart from supplying food and oxygen to the human eye, mention **one** other role of the choroid to the human eye.

.....

34. Write down any **one** component of sweat.

.....

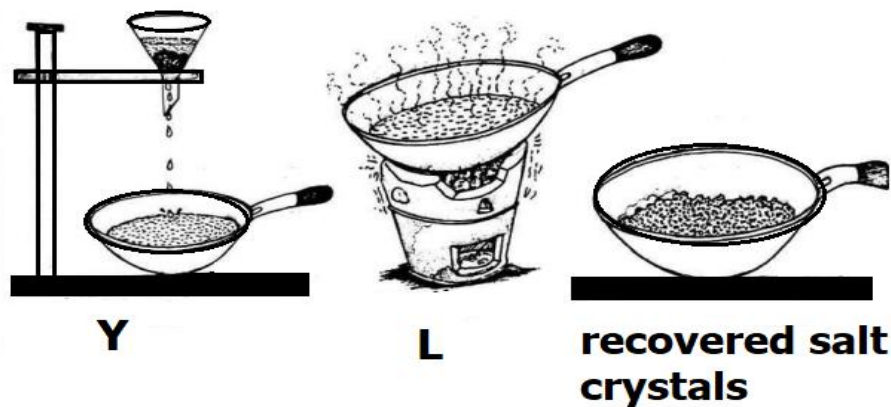
35. Mention any **one** structure that makes some seeds adapted to wind dispersal.

.....

36. State the way in which mairungi/miraa is commonly abused by people.

.....

The diagram below shows evaporation to dryness used in separating a solute from a solution. Study and use it to answer questions **37** and **38**.



37. Name the method of separating mixtures marked **Y**.

.....

38. State **one** way in which step marked with letter **L** is useful in the process of recovering salt.

.....

39. Give the correct danger that would result from fixing electric wires so tightly between poles during installation.

.....

40. Name the form of energy that sums up potential and kinetic energy.

.....



SECTION B: 60 MARKS

*Answer **all** questions in this section*

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

41. (a) Name the vector that spreads malaria to people.
-
- (b) Mention any **two** examples of vectors apart from the one you have named in (a) above.
- (i)
- (ii)
- (c) State the way in which vectors can be controlled in our homes.
-
-
42. Primary health care aims at promoting total health among people.
- (a) Give any **two** elements of primary health care as recommended by **WHO**.
- (i)
- (ii)
- (b) State any **one** role of **WHO** as an organization in Uganda.
-
-
- (c) State any **one** way in which primary health care providers promote health education and disease prevention.
-

43. (a) State the reason why a biogas digester is sealed tightly during installation.

.....

- (b) Identify **one** component of slurry used during the production of methane gas in the bio digester.

.....

- (c) Give any **one** way in which the use of methane gas promotes the conservation of wild life.

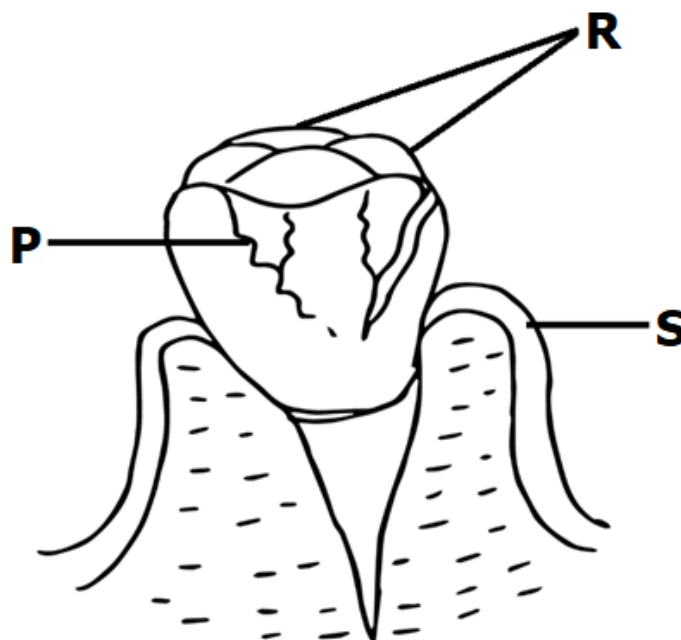
.....

- (d) State the way in which wildlife facilitates the production of methane gas in our daily life.

.....



44. The diagram below shows a type of tooth in the permanent set of teeth. Study and use it to answer the questions that follow.



- (a) Name the common tooth disorder labeled **P**.

.....

- (b) Name the parts of the tooth shown with letters **R** and **S**.
- (i) **R**
- (ii) **S**
- (c) State any **one** common poor practice done by people that may lead to the tooth disorder marked with letter **P**.
-

45. (a) Give the meaning of the term **autotrophic organisms**.
-
-
- (b) Give any **two** examples of autotrophic organisms in the environment
- (i)
- (ii)
- (c) State the way in which protozoa are similar to humans in terms of feeding.
-
-

46. The table below shows components of a water cycle in **part A** and their roles in **part B**.

Part A: component	Parts B: role of component in a water cycle
Sun	Carries out evaporation
Plants	Carries out transpiration
Clouds	Causes evaporation and transpiration
Water bodies	Fall down to the ground as rain

Match correctly the components of a water cycle with their roles in the spaces below.

- (i) Sun:
- (ii) Plants:
- (iii) Clouds:
- (iv) Water bodies:



47. (a) Give any **two** factors that may lead to weakened immunity in humans.

(i)

(ii)

(b) State any **one** effect of weakened immunity in humans.

.....

(c) Give any **one** way in which a pregnant woman can acquire effective immunity.

.....

48. Growth of pubic hair is a body change that is very common among adolescents in your community.

(a) Name the transitional stage in which the above change occurs in humans.

.....

(b) Apart from pubic hair, mention any **two** other body changes that occur during the transitional stage in (a) above.

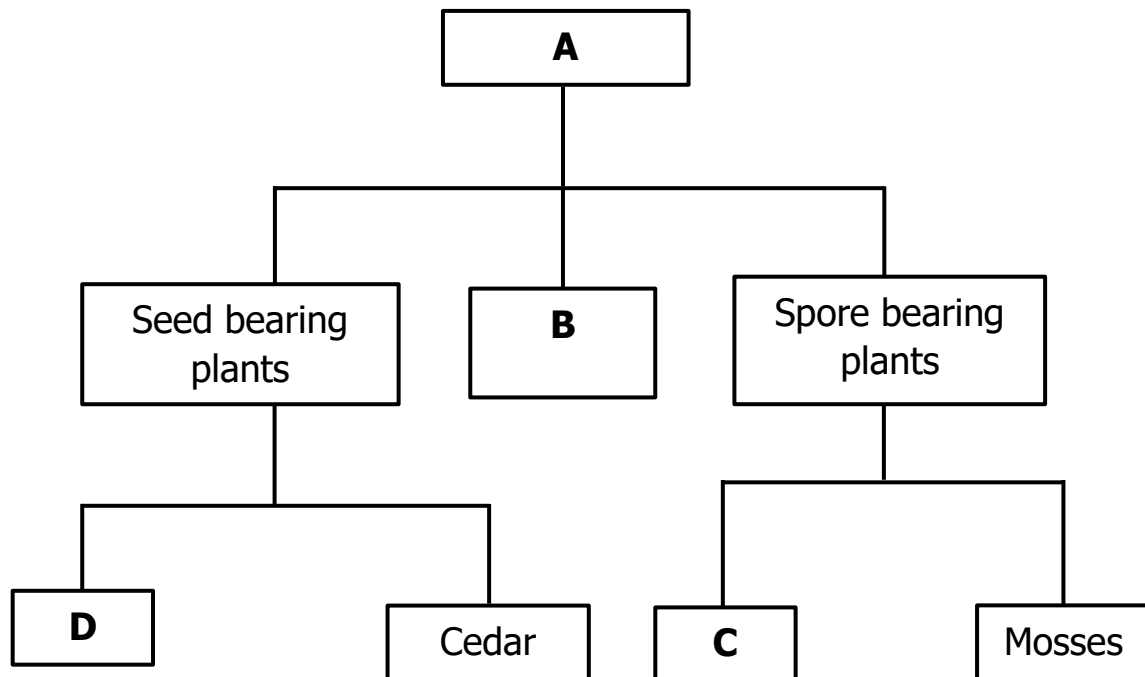
(i)

(ii)

- (c) Give any **one** way of managing effects of pubic hair in adolescent boys and girls.

.....

49. The table below shows different groups of non flowering plants with their examples. Study and use it to answer the questions that follow.



- (a) State the way in which plants in group **A** are similar to flowering plants in terms of feeding.

.....

.....

- (b) Name the group of non flowering plants marked **B**.

.....

- (c) Give **one** example of plants that can be added at **D** and **C** respectively.

(i) **D**

(ii) **C**

50. (a) Name the type of life cycle in which the following insects undergo;
- (i) Tsetse flies:
- (ii) Grass hoppers:
- (b) Mention **one** characteristic that makes grasshoppers to be grouped under the type of life cycle you have named in **50a(ii)** above.
-
-
- (c) State the mode of reproduction common in all tsetse flies.
-
51. (a) State the meaning of the term **food hygiene practices**.
-
-
- (b) Mention any **two** food hygiene practices that can help individuals to ensure safety and quality of food they prepare and consume at home.
- (i)
-
- (ii)
-
- (c) State any **one** way in which a school health committee can ensure that food hygiene practices are maintained at school.
-
-

52. (a) Name the types of current electricity described as follows;

(i) Flows in one direction only, from positive to negative.

.....

(ii) Periodically reverses direction

.....

(b) State any **two** examples of devices that are sources of electricity we use in our daily life.

(i)

.....

(ii)

.....



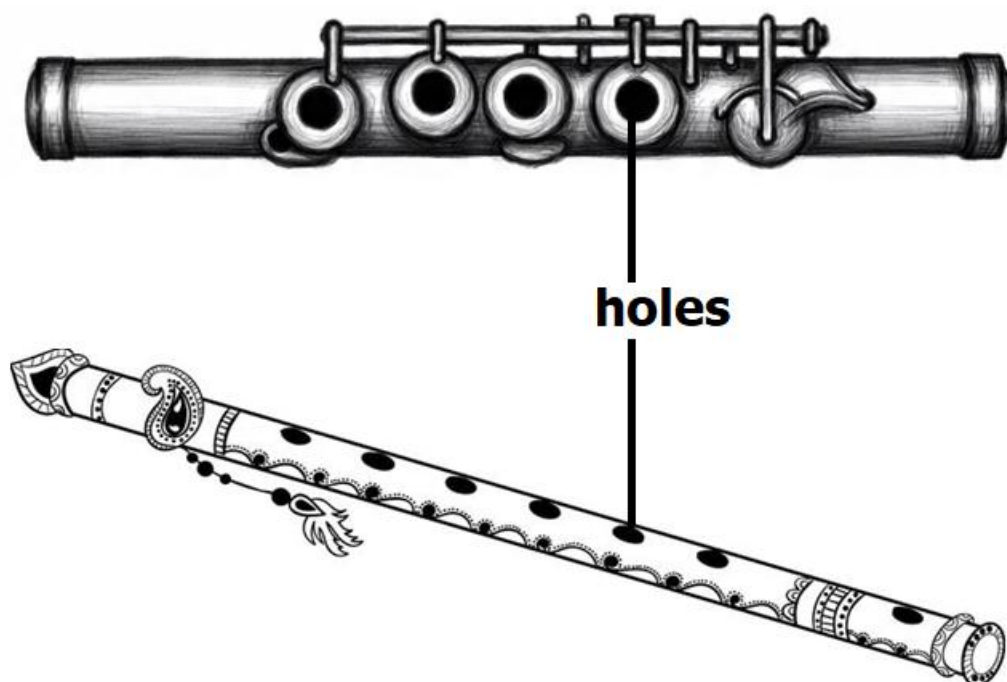
53. (a) The table below shows the percentage of air in the atmosphere. Study and complete it correctly.

Gases	Inhaled air	Exhaled air
Oxygen		16%
carbon dioxide	0.03%	
Nitrogen		78%
Rare gases	0.97%	0.97%

(b) State the reason why the percentage of inhaled and exhaled rare gases remains the same.

.....

54. The diagrams below show two well-made flutes which are musical instruments commonly used in our community. Study and use them to answer the questions that follow.



- (a) State **one** way in which the holes on the above instrument are important in sound production.
-
-
- (b) Name the group of musical instruments to which the above flutes belong.
-
- (c) State the way in which the pitch of sound produced by the above flutes;
- (i) Can be increased
-
-
- (ii) Can be decreased
-
-

55. (a) Mention any **one** antisocial behaviour common among children at school.

.....

- (b) Apart from guidance and counseling, give any **two** other ways in which you can help your fellow pupil who prefers playing football to attending school regularly.

(i)

.....

(ii)

.....

- (c) State any **one** way in which guidance and counseling helps to a pupil to prioritize both attending school and playing football.

(iii)

(iv)



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