GREENHILL SCHOOLS

JOINT EXAMINATIONS (SET VII) 2023

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.	Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Random No. ……..

District ID: ……..

Read the following instructions carefully:

1. The 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 written using a **blue or black ball-point pen or ink.**
4. Unnecessary changes of 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 boxes indicated **"For Examiners' Use Only"** and those 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: 40 MARKS

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

1. Name any one example of a stem tuber.

_____

2. How do sea mammals keep themselves warm in water?

_____

3. What name is given to the larva stage of a mosquito?

_____

4. Give any one use of light to people apart from enabling them to see.

_____

5. Identify any one thing that happens to air we breathe in nasal passage.

_____

The diagram below shows a beak of a bird.

6. What does the bird whose beak is shown above feed on?

_____

7. Mention the immunisable skeletal disease.

_____

8. How can we promote proper food digestion?

_____

9. State the importance of the sun in preserving seeds.

_____

10. In which state of matter does sound travel fastest?

_____

11. Apart from radios, mention any other household appliances that use both electricity and magnet.

_____

12. How does the human skin control the body temperature?

_____

13. Give any one use of water to plants.

_____

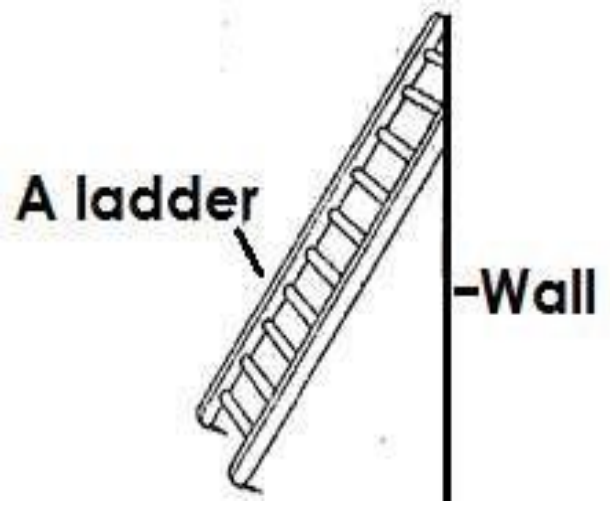
14. Identify one skin disease brought by poor personal hygiene.

_____

15. How does brushing teeth prevent tooth decay?

_____

The diagram below shows a simple machine. Use it to answer questions that follow.



16. Under which group of simple machines do the above belong?

_____

17. Apart from the above example, name any other example of simple machine that is grouped under the same group as the one above.

_____

18. Apart from using bulbs, how else are onions propagated?

_____

19. Write down the immediate help you would give to a person who has been burnt by a hot spoon.

_____

20. What determines the size of the image in a pin hole camera?

_____

21. What state of matter is steam?

_____

22. Name the structures that enable geckoes to move upside down the ceiling.

_____

23. Name the germ that causes polio.

_____

24. State any one disease that affects red blood cells.

_____

25. Which vector spreads typhus fever to people?

_____

26. How are coconut seeds dispersed?

_____

27. In which kind of weather condition do the electric wires sag?

_____

28. Give one example of a vertebrate that uses a shell to protect itself.

_____

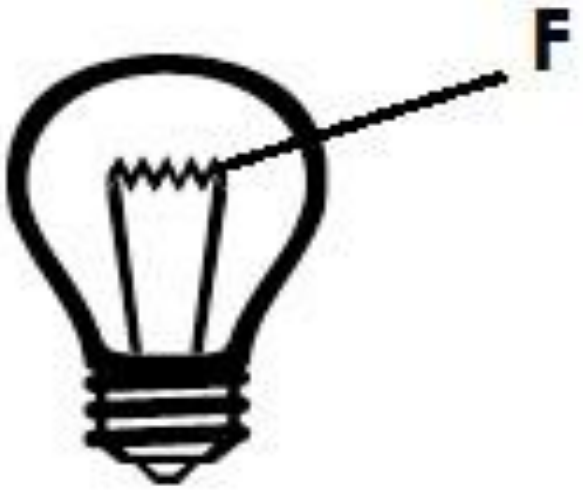
29. Name the insect that doesn't lay eggs but produces larva.

_____

30. Which component of air is used by plants to make proteins?

_____

Study the diagram of an electric bulb below and use it to answer question 31.



31. Why is part marked F made of coiled wires?

_____

_____

32. Mention any one example of litter found in poultry House.

_____

33. Of what importance is litter mentioned above in a poultry house?

_____

_____

34. The mass of a stone is 50g. If its volume is 10cc. calculate its density.

35. Of what importance are the bright feathers to a hen?

_____

36. State any one reason why handles of umbrella are made of plastic or rubber.

_____

_____

37. What happens when pollen grains land on the stigma?

_____

38. Name one breed of cattle reared in Uganda.

_____

39. Apart from killing germs, identify any other use of hydrochloric acid during digestion.

_____

40. What scientific name is given to the smallest particles that make up matter?

_____

SECTION B (60 MARKS)

41. a. What is environmental degradation?

_____

_____

b) Give any three artificial causes of environmental degradation.

(i)_____

(ii)_____

(iii)_____

42. a) What name is given to animals with back bones?

_____

b) Mention any two groups to animals with back bones.

(i)_____

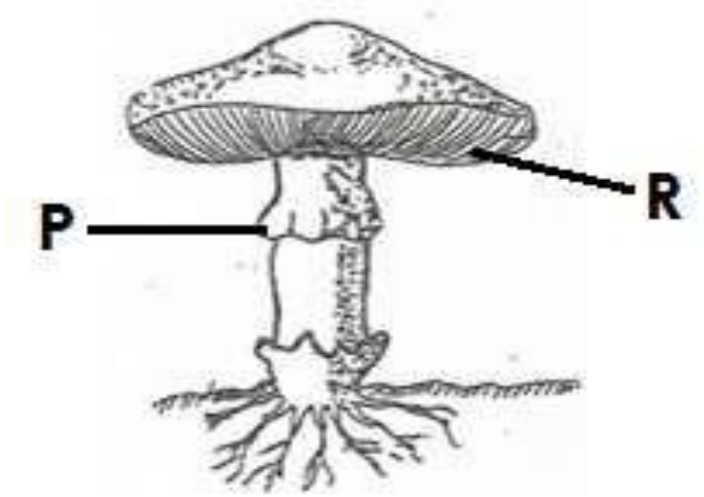
(ii)_____

c) Why is a duck billed platypus referred to as a mammal yet it lays eggs?

_____

_____

43. **The diagram below shows fungi. Use it to answer questions that follow.**



a) Name part marked **P**

_____

b) How does the above fungi reproduce?

_____

c) State the function of part marked R.

_____

44.a) What specific name is given to the vertical arrangement of soil layers?

_____

b) Write down any three activities that destroy the soil.

(i)_____

(ii)_____

(iii)_____

45.a) Why should an ordinary pit latrine be smoked regularly?

_____

b) Give any two indicators of poor sanitation in a home.

(i)_____

(ii)_____

c) Write **ECOSAN** in full.

_____

46.a) Name the weather instrument used to measure the amount of rainfall received in an area.

_____

b.) Give reason why people are advised to,

(i)Put the instrument named in (a) above in an open ground when using it.

_____

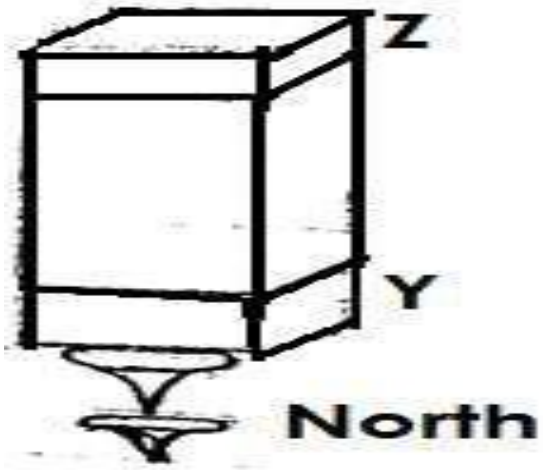
(ii)Raise the instrument 30cm above the ground when using it

_____

c) What is the importance of a ceilometer as a weather instrument?

_____

47. **The diagram below shows a method of marking a magnet. Use it to answer questions that follow.**



a) Name the method shown above.

_____

b) What name is given to the magnet made by using the method named in (a) above.

_____

c) Give any one way in which a magnet can be used in a kitchen.

_____

d) Name the pole marked Y.

_____

48. **Match the following items in A with those in B correctly**

List A	List B
Nuclear electricity	fast flowing water.
Geothermal electricity	burning fuels.
Thermal electricity	hot rocks in the earth.
Hydro electricity	produced from uranium

a) Nuclear electricity _____

b) Geothermal electricity _____

c) Thermal electricity_____

d) Hydro electricity _____

49.a) State two roles played by the ovaries during reproduction.

(i)_____

(ii)_____

b) What name is given to the hormone in male animals that determines the secondary sex characteristics.

_____

c) Give one way of safe guarding against teenage pregnancy among girls below the age of 18.

_____

50.a) Suggest two ways in which people in your locality use heat.

(i)_____

(ii)_____

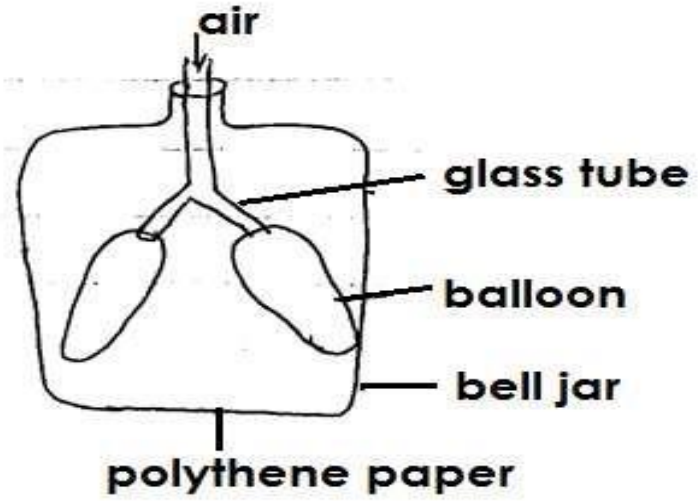
b) Suggest a reason why the inner walls of a solar drier are painted black.

_____

c) How does heat help to speed up the drying of wet clothes?

_____

51. The diagram below shows the way in which one of the systems of the human body works. Use it to answer the questions that follow.



a) Name the system.

_____

b) What does a balloon represents?

_____

c) What does a polythene paper represent?

_____

d) What would happen to the polythene if air is removed from the balloon?

_____

52.a)How does each of the following animals protect itself against its enemies?

a) Chameleon

_____

b) Porcupine

_____

c) Skunk

_____

d) Scorpion

_____

53. **Study the table below and answer the questions that follow.**

List A	List B
Hen	Seals
Dove	Whale
Duck	Porpoise
Turkey	Dugongs

a) To which class of animals do those in B belong?

_____

b) In which way are animals in list A similar to those in B

_____

_____

c) Apart from those in list B. Give any other animal that fits in the list.

_____

d) State the characteristic which is common in animals in both list A and list B.

_____

54. Give one example of the following types of joints

(i)Hinge joint

_____

(ii)Ball and socket joint

_____

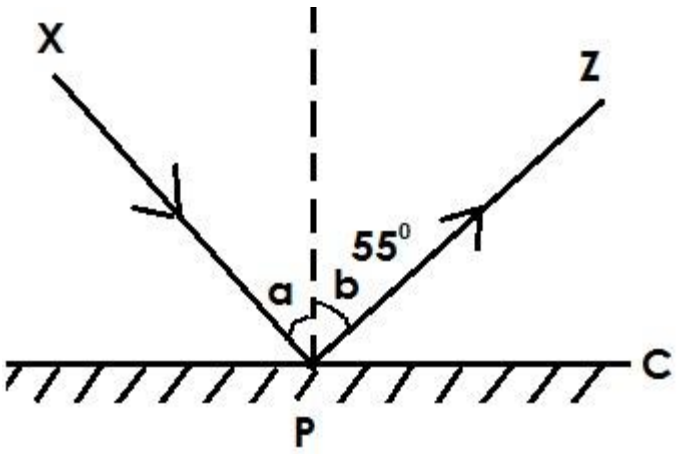
b) Mention the structure that joins a bone to a bone.

_____

c) Name the longest and strongest bone in human body.

_____

55. **The diagram shows a ray of light striking a smooth surface. Study it and use it to answer questions that follow.**



a) Name any one example of a material that can be used at material C

_____

b) What is the size of angle a

c) Name the following rays

(i) XP_____

(ii) PZ_____

END