NEXT EXAMINATIONS BOARD

PRE-PLE SET 10 (ELEPHANT)

Final Mark Scored	

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 forget to write your **name** and **school 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 **15 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

1. Name one class of food that protects the body against diseases.

.....

2. Give one way in which volume is different from capacity.

.....

.....

3. Mention one way how ball bearings help to reduce friction in moving parts of a machine.

.....

.....

4. State the reason why it is important to take a child who has pushed a bean seed into the nose to a health worker.

.....

5. Give any one advantage of using a coiled filament over a straight filament in an electric bulb.

.....

.....

6. Mention the term that refers to the degree of compactness of particles in a substance.

.....

7. State one way a village health team (**VHT**) help to promote health in rural areas.

.....

47.(a)Give one reason why modern beehives are preferred to traditional ones in bee farming?

.....

.....

(b)State any two factors any bee farmer should consider before setting up beehives for rearing bees.

(i).....

(ii).....

(b)Give one role bee farming plays towards cosmetics industries.

.....

.....

48 a) Name the examples of chemical change which leads to the formation of the following substances;

(i) humus .....

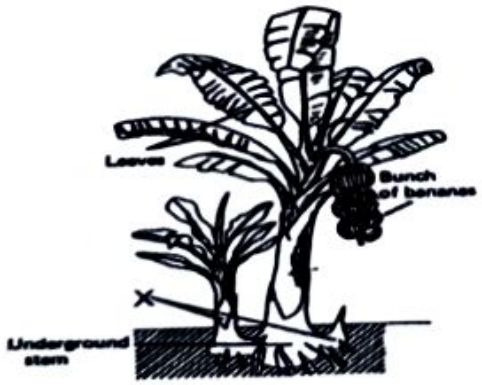
(ii)ash .....

c) State any two ways how chemical changes can be dangerous to the environment.

i) .....

ii).....

49.The diagram below shows a flowering plant. Use it to answer questions that follow.



8. Write the meaning of the term **silting**.

.....

.....

.....

9. State one importance of perches in a poultry house.

.....

.....

The diagram below shows a germinating seed. Study and use it to answer questions 10 and 11.



10. Name the type of germination shown above.

.....

11. Identify one way how the function of the cotyledon of the above seed is different from that of the maize grain.

.....

.....

12. State the reason why a wind mill should be placed on an open raised area.

.....

.....

13. Give the reason why the periscopes do not form laterally inverted images yet they use plane mirrors.

.....

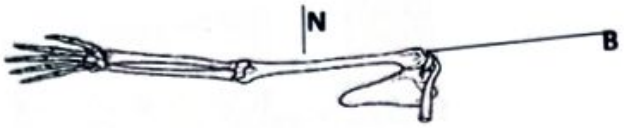
.....

14. Give one importance of a weather chart to pupils at school.

.....

.....

The diagram shows the part of the human skeleton. Study and use it to answer the questions that follow.



15. Name the bone labelled **N**.

.....

16. Mention the movable joint at point **B**.

.....

17. Give any one way in which you can tell that a child is suffering from vitamin A deficiency.

.....

18. State one way used to identify locusts under incomplete lifecycle.

.....

.....

19. Give one reason why strings of guitars are usually made of wires of different thickness.

.....

.....

20. Give any one sign of cassava mosaic on the cassava crops.

.....

21. State the reason why potassium and sodium are commonly lost during dehydration and demineralization.

.....

.....

22. Name the element of PHC which helps to reduce the death of mothers and their babies.

.....

23. Give any one way in which the placenta is important to the developing foetus in the uterus.

.....

.....

24. State one way how mulching controls the growth of weeds in the garden.

.....

.....

25. Give a reason why breast feeding is recommended for at least two years.

.....

.....

26. State one the reason why ash and sawdust are added during the making of compost manure.

.....

.....

27. Give the reason why a farmer would prefer to propagate onions by bulbs to using seeds.

.....

28. State the reason why water exists in the three states of matter.

.....

.....

29. Mention the way a swim bladder keeps the fish buoyant.

.....

.....

30. State any one way how hammering the magnet affects its magnetism.

.....

.....

The diagram below is one of the instruments found in the first aid box. Study and use it to answer questions 31 and 32.



31. Name the instrument shown above.

.....

32. Give one use of the above instrument in offering first aid.

.....

.....

33. Explain how surface area affects the capacity of an object.

.....

.....

34. State any one use of echoes in our daily life.

.....

.....

35. Identify any one way in which the human body works.

.....

.....

.....

36. Give the meaning of the term food poisoning.

.....

.....

.....

37. State one way how gonorrhea can lead to the spread of AIDS.

.....

.....

38. Mention one activity that the school health club can do to promote food hygiene at school.

.....

.....

39. Mention one factor that affect the nature of the shadow formed by an object.

.....

40. Give a reason why screws are said to be force multipliers.

.....

.....

SECTION B:

41.a) Give the two states of matter in which heat travels by convection.

i).....

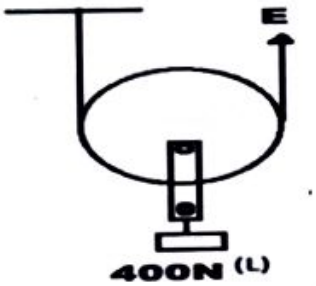
(ii).....

b) State any two ways in which heat transfer by convection is helpful in our daily life.

i).....

ii).....

42. The diagram below shows a type of pulley. Study it carefully and answer the questions that follow.



(a) Name the type of pulley system shown above.

.....

(b) Give one advantage of using the above type of pulley system.

.....

.....

(c) Find the effort needed to raise the load in the above pulley.

.....

43.a) Name the disease of rabbits that causes wounds on their ears.

.....

c) State any one exotic breed of rabbits kept for fur production.

.....

d) Give any two reasons why farmers prefer keeping rabbits to sheep

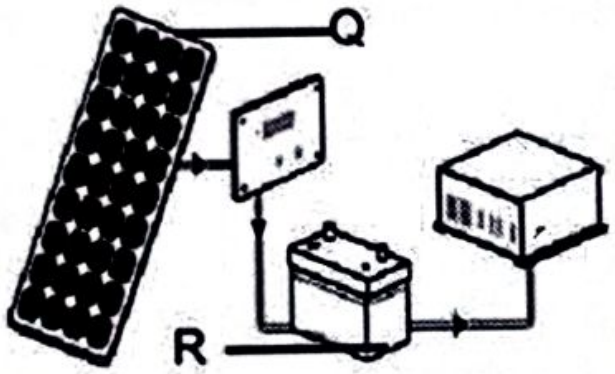
i).....

.....

ii).....

.....

44. **The diagram below show a simple solar system. Study and use it to answer questions that follow.**



a) Name the source of energy used by the above system.

.....

b) State the function of the following parts of the system.

Q: .....

R: .....

c) State one way in which the above system is better than using a petrol generator.

.....

.....

45.(a) Mention any one sign of beriberi.

.....

b) Give any two ways in which a diet chart (menu) can be important in a school.

i).....

ii).....

(c) Identify the cause pellagra in the body.

.....

46.The table below shows a cattle disease, their causes and prevention. Study and complete it correctly.

Disease	**Cause**	**Prevention**
Heart water	.....	Spray to kill ticks
.....	Virus	Regular vaccination
Mastitis	Bacteria	.....
.....	Protozoa	Spray to kill tsetse flies

(a)Name part marked with letter **X.**

.....

(b) How is the above plant propagated?

.....

(c)Give one reason why the above plant should be propped.

.....

.....

(d) Identify one disease that affects the above plant.

.....

52.The table below shows the list terms in soil science in A and their meanings in B in a wrong order.

A	B
Soil profile	The ability of the soil to support plant life.
Soil fertility	The removal of top soil from one place to another.
Soil erosion	The prevention of damage or wastage of soil.
Soil conservation	The vertical arrangement of soil layers.

a) Soil profile .....

b) Soil fertility .....

c) Soil erosion .....

.....

d) Soil conservation .....

50.When a stone was dropped into a measuring jar containing 100cc of water, the water level raised to 115cc.

(a)Calculate the volume of the stone. (2mks)

.....

(b)State the method that has been used to find the volume of the stone.

.....

(c)Identify one factor that enables objects to float on water.

.....

51.Describe the steps followed to make local salt from plant material.(4marks)

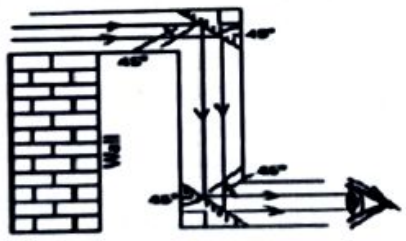
(i).....

(ii).....

(iii).....

(iv.....

53. Study the diagram below shows an optical instrument. Use it to answer the questions that follow.



a) Name the optical instrument shown above.

.....

b) Give a reason why the above optical instrument does not form laterally inverted images yet is uses plane mirrors.

.....

.....

c) State the way how above instrument help to promote security of an area.

.....

.....

(d)Identify the principle of light on which the above instrument works.

.....

54.Nursery bed preparation is an important stage in crop growing.

a) State any two factors one would consider when starting a crop farming business.

i).....

ii).....

b) State any one reason why some crops are first grown in a nursery bed.

.....

.....

c) Name one tuber crop that is first grown in a nursery bed.

.....

55. a) Name the female reproductive cells in humans.

.....

b) Explain the meaning of the following terms;

i. fertilization

.....

.....

ii. ovulation

.....

.....

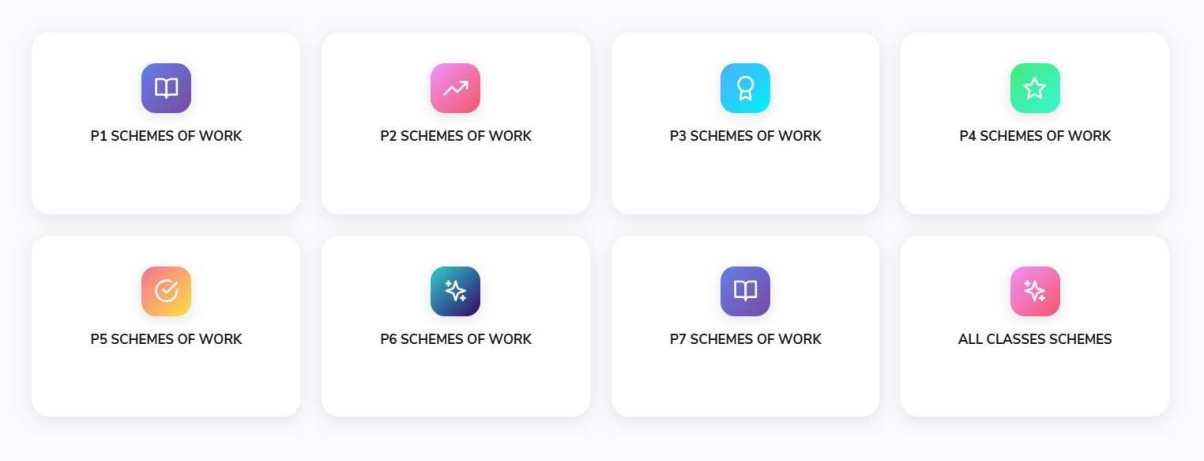
c) Mention any one way of caring for a pregnant woman.

.....

.....

END

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