



VICTORY STEP EDUCATION SERVICES

PRE-PLE EXAMINATION SUPER MAGIC SET TWO

2022

INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes

EMIS No.						Personal No.		

Candidate's Name:

Candidate's signature:

School Random No:

District ID:

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. Section **A** and **B**. Section **A** has 40 questions and section **B** has **12 questions**. This paper has **12** pages printed together.
3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: "**For examiner's use only**" and the boxes inside the paper.

FOR EXAMINER'S USE ONLY		
Qn. No.	MARK	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

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

1. Apart from burning , name one other chemical change that produces heat.

.....

2. Give any one way rats are dangerous to our healthy.

.....

3. How does wind increase the rate of transpiration in plant?

.....

4. When do solitary insects come together?

.....

5. Give one way of demagnetising an induced magnet.

.....

.....

6. Name the type of twins that develop from one ovum.

.....

7. Why is the eye of an insect said to be a compound?

.....

8. How does silting lead to floods?

.....

9. Which component of blood carries carbon dioxide?

.....

10.Name the body organ that detects the smell of food.

.....

11.To which group of simple machines does a panga belong?

.....

12.Name the component of air that turns lime water milky.

.....

13. Which force enables a child to rub pencil diagrams using a rubber?

.....
.....

14. Name the item used to wipe the body after bathing.

.....

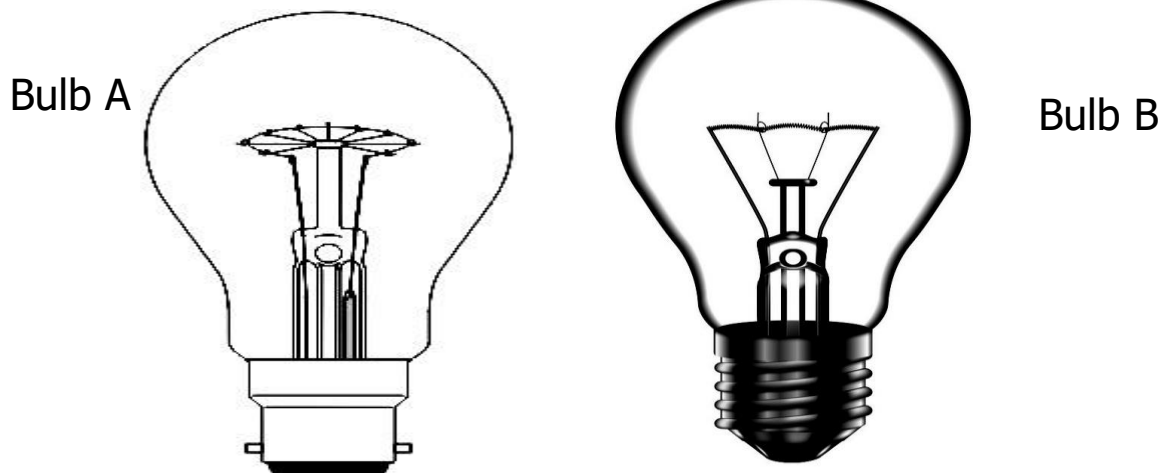
15. Apart from evaporation mention any other physical process involved in the distillation method of making alcohol.

.....

16. Why do bee keepers leave some honey combs in the hive during honey harvesting?

.....
.....

Study the electric bulb below and use it to answer the questions that follow.



17. Which of the above bulbs will produce more light if connected to the same amount of current?

.....

18. Give a reason to support your answer in **No.** 17 above

.....
.....

19. Name the component of a compass that enables it to show direction.

.....

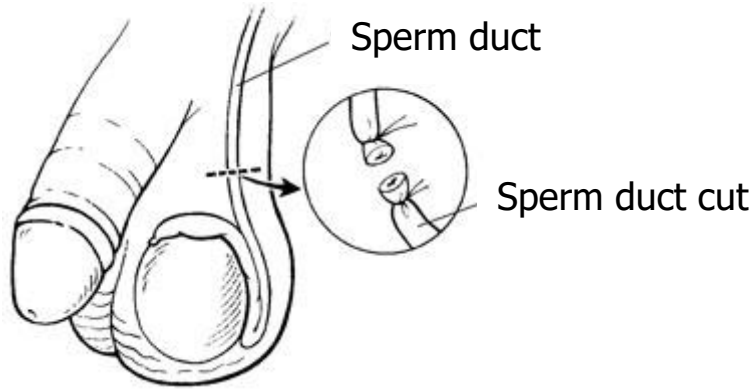
20. Why are mushrooms more common during the rainy season?

.....

21. State the property of light that enables the moon to give us light at night.

.....
.....
22. State one way of managing the effect of HIV/AIDS in the body

.....
.....
Study the method of family planning below and use it to answer question 23
And 24.



23. Name the method of family planning shown above.

.....
24. Why is the above method not recommended for newly married couples?

.....
25. How does a lion control over grazing?

.....
26. Which method of preserving meat involves the process of osmosis?

.....
27. Name the type of skeleton formed by the cuticle

.....
28. Give one cause of partial deafness in humans.

.....
29. How is a fence at school helpful in the control of COVID – 19?

.....
30. Give one way of preventing neonatal tetanus

.....
31. Mention any one factor that makes some ovules fail to become seeds.

32. Why are people suffering from sickle cell disease always weak?

.....
.....

33. Give a reason why a fuse melt when too much voltage flows in it.

.....
.....

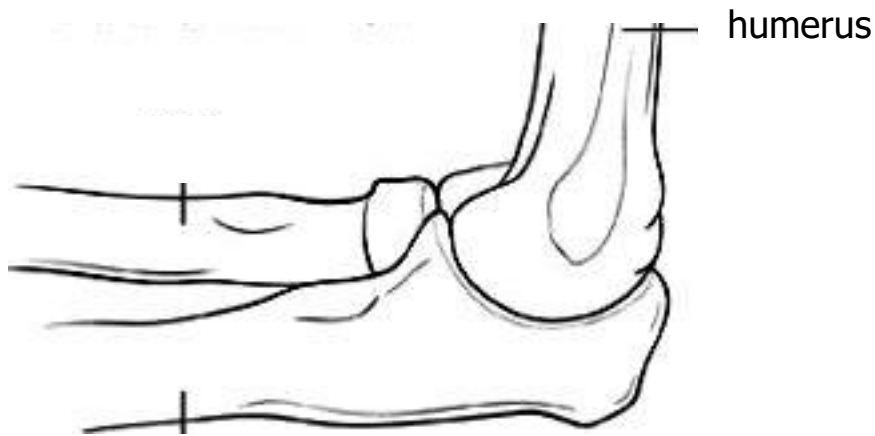
34. How does having some rest after being bitten by a snake reduce on the spread of the venom in the body?

.....

35. Why should planting seeds be treated?

.....

Study the diagram of a type of a joint below and answer the questions that follow.



36. Name the type of movable joint shown above.

.....

37. Give one characteristic of the above type of joint.

.....

38. Give the difference between a food chain and food path.

.....

.....

39. Give one way of resetting a clinical thermometer

.....

40. Name the part of a female mosquito that pierces the skin for easy sucking of blood.

.....

.....

SECTION B: 60 MARKS

41 (a) What name is given to an animal on which parasites depend?

.....

(b) State any two ways parasites affect the health of other animals.

(i)

(ii)

(c) Give one way of controlling ecto parasites in humans

.....

42 (a) Apart from inclined planes , give two other type of simple machines that help in the transfer of objects.

i)

ii)

(b) State any one factor that determines the efficiency of an inclined plane.

.....

(c) Give one difference between simple machines and complex machines

.....

.....

.....

43 (a) Apart from real images , name another type of images

.....

(b) Give two characteristics of real images.

(i)

(ii)

(c) Name any one optical instrument that produces real images

.....

44. Complete the table below about practices done on a crop farm and the suitable tools used.

Activity	suitable tool
.....	secateurs
Transplanting
.....	tape measure
Spraying

45(a) What do we call the ability of a body to perform an activity?

.....

(b) Mention any two devices that transform kinetic energy into other forms of Energy.

(i).....

(ii)

(c) State one way kinetic energy in wind can be used directly

.....

46 (a) Give any two similar characteristics between pulmonary vein and arteries

(i)

.....

(ii)

.....

(b) How does too much fats in the body affect the flow of blood.

.....

c) Apart from proper feeding, give one other way of keeping the circulatory system in a proper working way.

.....

47 (a) Give one effect of poor supply of oxygenated blood to the brain

.....

(b) State the use of oxygen to the brain.

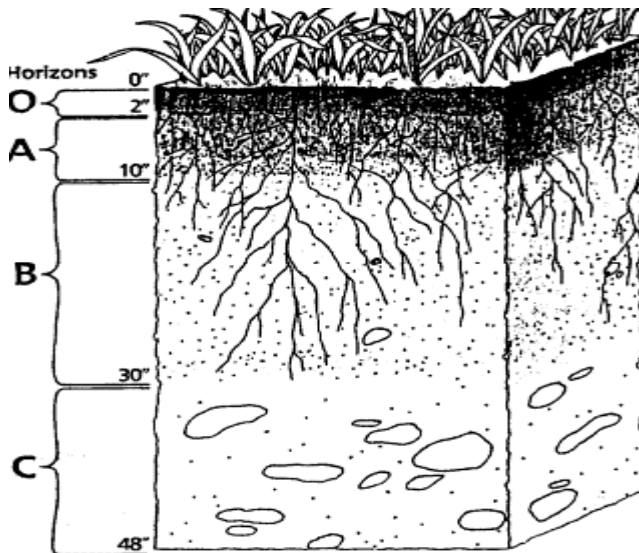
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(c) Mention two conditions that leads to poor supply of oxygenated blood to the brain.

i)

ii)

48. Study the diagram below and use it to answer the questions that follow



(a) What does the diagram above represent about soil?

.....

(b) What do we call the movement of nutrients from A to B ?

.....

(c) Give two ways of conserving layer A

(i)

(ii)

49(a) Name the body organ affected by pneumonia in human beings.

.....

(b) Apart from germs , give any other cause of pneumonia in human beings.

.....

(c) Give any two ways of controlling pneumonia.

i).....

.....

ii)

.....

50(a) What term refers to the tightening or shortening of the muscles?

.....

(b) Mention any two importance of muscle tightening or shortening.

(i)

(ii)

(c) Name any one disorder of the muscle

.....

51(a) Apart from curing diseases, give other two uses of essential drugs

(i)

(ii)

(b) Give two ways how people use essential drugs

(i)

(ii)

52(a) Why does a female frog move with a male during the laying of eggs?

.....

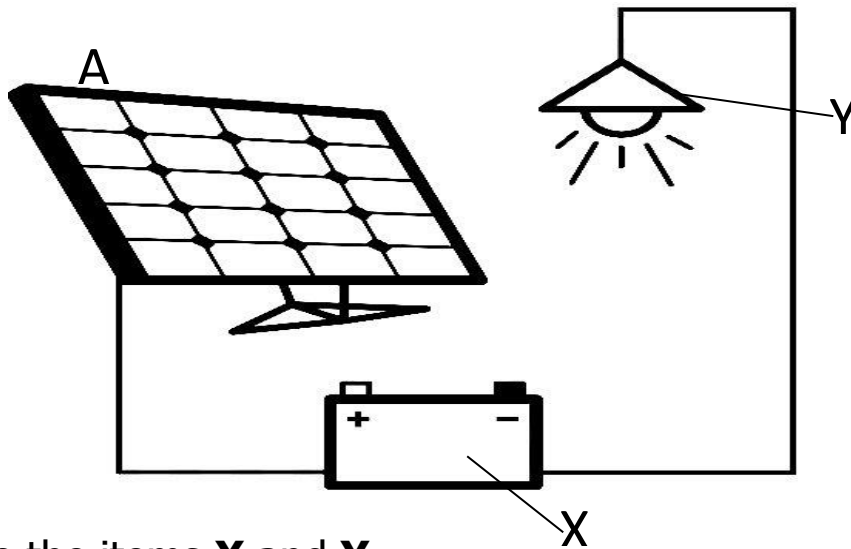
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(b) How are the eggs of a frog protected from predators?

.....

(c) In the space provided below, draw the eggs of a frog.

53. The diagram below shows how electricity is generated from solar energy. Study it and answer the questions that follow.



(a) Name the items **X** and **Y**

(i)

(ii)

(b) Give any one use of part marked X in the diagram above

.....

(c) State any one advantage of using electricity generated from solar energy.

.....

54(a) Give any two uses of oil in our daily today lives

(i)

.....

(ii)

.....

(b) State the characteristic of oil that enables it to control friction.

.....

(c) Give one disadvantage of poor disposal of oil in the environment.

.....

55(a) State the method that can be used to separate each of the following mixtures.

(i) salt and ash

.....

(ii) salt and water

.....

(b) How is water important when separating salt mixed with sand?

.....

.....

(c) Why do mineral salts remain in the original container during distillation?

.....

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END