

SUCCESS INTEGRATED PRIMARY SCHOOL

PRIMARY LEAVING EXAMINATION SET 1, 2020

PRIMARY SEVEN

INTEGRATED SCIENCE

Time allowed: 2 hours 30 minutes



NAME: _____

INDEX NUMBER

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EMIS NO: _____ SIGNATURE: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully:

FOR EXAMINER'S USE ONLY

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 40 questions (40 marks)
3. Section **B** has 15 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated;
For Examiner's use only.

Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

“With God all is Possible”

PTO

SECTION A

1. Why is vapour in the atmosphere considered as matter?

2. Mention any one possible cause of dehydration in children.

3. Of what importance is a temperature gun to a school?

4. Why do most cattle keepers prefer rearing Friesians to other types of dairy breeds of cattle?

5. What happens to the pollen grains when they land on the stigma of a flower?

6. Identify the type of tooth illustrated below



7. Mention any one characteristic that makes a cat to be regarded as a carnivorous mammal.

8. How does a fish depend on the swim bladders?

9. What method of heat transfer enables water in a saucepan to boil when put on fire?

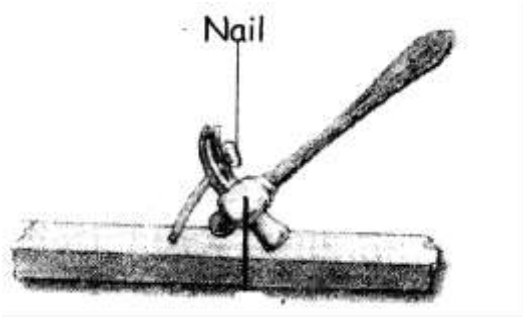
10. Briefly explain how humus is formed.

11. How do railway line constructors prevent bending of rails during railway construction?

12. Give one characteristic that makes enzymes to be easily destroyed by heat.

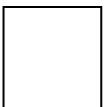


Use the diagram below to answer questions 13 and 14.



13. To which group of simple machine does the tool above belong?
-
14. By the help of an arrow, show the direction of effort.
15. Which blood vessel distributes oxygenated blood to all body parts?
-
16. Why do images in a pinhole camera appear upside down on the screen?
-
17. Apart from excretion, write any other importance of sweating to the human body.
-
18. How does smoking lead to lung cancer?
-
19. Placenta plays an important role during the development of the baby in the womb. How useful is the placenta to the baby?
-
20. Identify the effect of too much diarrhoea and vomiting to a person.
-
21. Which kind of injury of the muscular and skeletal system is caused by over stretched muscles?
-

Below is a foot of a bird. Use it to answer question 22 to 23



22. Which type of foot is shown above?

23. To which group of birds does the above foot belong?

24. State the usefulness of part X to birds with such a foot.

25. Which body organ in humans has the same function as the feelers of a grass hopper?

26. Why are drops of water seen around a bottle which has been removed from a fridge?

27. State the importance of root hairs to a bean plant.

28. Explain a reason why electric wires appear loose on a hot day between poles.

29. On the diagram below, show how magnetic lines of force flow.



30. Where does fertilization in she-goats take place?

31. Identify any one factor to consider when selecting a suitable site.

32. Identify any one urinary tract infections that can easily lead to contraction of HIV/ AIDS.

33. How is dusting of stores using chemical important during storage of grains?

34. State the food deficiency prevented by eating fish.



35. Mention the type of manure got from rabbitary project.

36. How is the small intestine adapted to its role of food absorption?

37. Suggest any one characteristic of seeds dispersed by animals.

38. Why do amphibians lay many eggs?

39. Name the non-metallic material that is used in making the positive terminal of a dry cell.

40. Write down any one non-flowering spore producing plants.

SECTION B

41. a) How are monotremes different from other mammals?

b) What name is given to animals that are active at night and sleep during day?

c) Give any two groups of vertebrates besides mammals.

i) _____

ii) _____

42. a) Name the static electricity in nature.

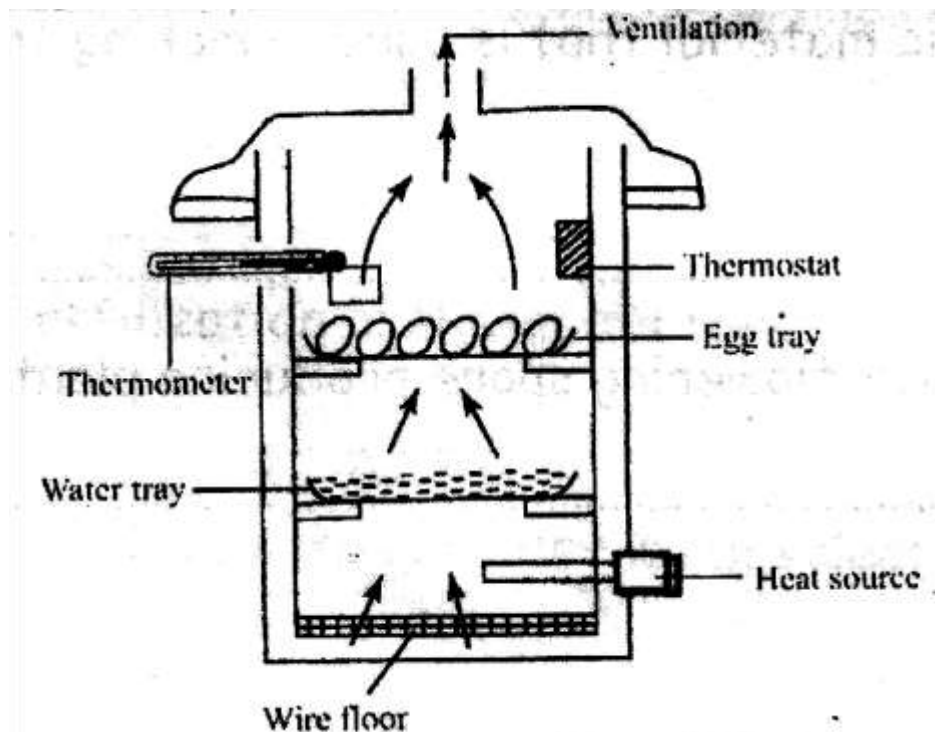
b) What force helps the above type of electricity to take place?

c) Give one way in which the electricity in (a) above is a disadvantage in the environment.

d) How is the electricity above helpful to a crop farmer?



43. Study the diagram below and answer questions that follow



a) Name the machine show above. _____

b) What method of hatching eggs use the machine above?

c) Give one advantage of using the above machine in hatching of eggs.

d) Give a reason why the machine above is not commonly used in rural areas.

44. a) How is a charcoal obtained?

b) During the processing of charcoal, state the reason why each of the following is carried out;

i) covering the wood with grass.

ii) covering the wood and grass with soft/ moist soil.

c) Mention one material recommended for stopping charcoal from burning during it's harvest.

45. a) What are resources?



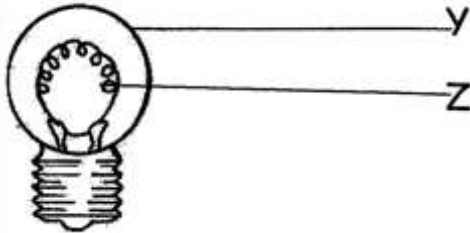
b) Identify any two energy resource found in our environment.

i) _____

ii) _____

c) Why should non-renewable resources be used sparingly?

46. Use the diagram below to answer questions that follow



a) Name part marked Z. _____

b) Why is part marked z coiled?

c) State the energy changes that occur in the bulb when the circuit is complete.

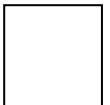
d) Give the function of part marked Y.

47. a) What is temperature?

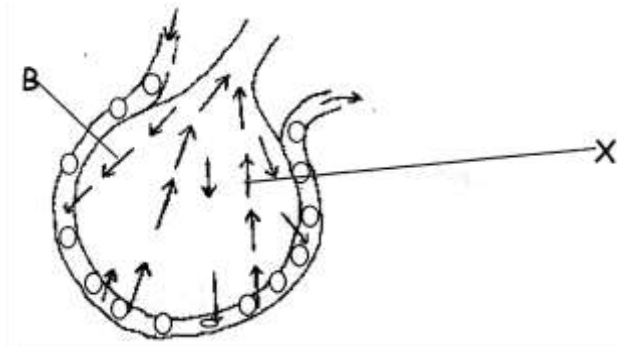
b) How does increase in temperature affect plants?

c) Give one reason why mercury is used in thermometers.

d) Convert 77°F to Celsius scale.



48. The diagram below shows parts of the lungs. Use it to answer questions that follow.



a) Identify the structure drawn.

b) By what process does gaseous exchange take place in the structure above?

c) Name the gas marked X.

d) Identify any one disease that attacks the respiratory system.

49. a) Describe the term active smoking.

b) Give one reason why people smoke.

c) State one difference between drug abuse and drug misuse.

d) Identify any one non-infectious disease caused by smoking.

50. a) Write VIP in full as used in sanitation.

b) State the function of the following parts on a VIP latrine;

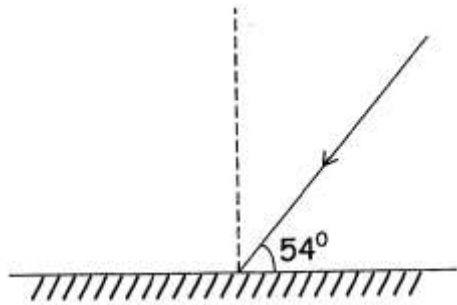
i) Vent pipe

ii) Screen

c) Suggest one way of reducing bad smell in an ordinary pit latrine.



51. a) Complete the diagram below



b) Calculate the angle of incidence

(2marks)

c) State the law of reflection of light.

52. a) Describe the following terms as used in sound energy.

i) Pitch

ii) Volume

b) Give any one method of storing sound energy

c) How can stored sound be reproduced?

53. **Match the following excretory organs with their excretory products**

Excretory organs

Liver

Skin

Kidneys

Lungs

Excretory products

water vapour

excess sugar

lactic acid

urine

a) Liver _____

b) Skin _____

c) Kidneys _____

d) Lungs _____



54. a) Describe the term milking.

b) Identify one way of obtaining clean milk during milking process.

c) State the importance of a strip cup during milking process

d) Give any one method of preserving milk.

55. **Study the list of organisms below;**

caterpillar , hen , cabbage, eagle

a) Which of the above organism is;

i) primary consumer _____

ii) tertiary consumer _____

b) Name the source of energy needed by the producer to make its own food.

c) Using the above organisms, construct a food chain.

