

**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		

Turn Over

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

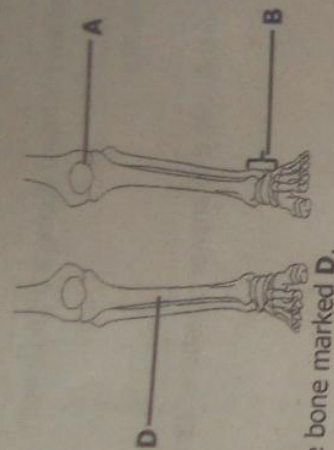
1. Mention the way bees protect themselves against danger.
  2. How does rainy weather affect soil?
  3. Which body organ is made of cardiac muscles?
  4. Give one way in which radiation is useful to people in a home.
- The diagram below shows a garden tool. Use it to answer questions 5 and 6.



5. State one way in which above garden tool is useful on the cattle farm.
6. Give one way in which the above garden tool can be made to function well.
7. Give any one way in which family planning is important to children in the family.
8. Mention one alternative source of energy to wood fuel used at home.
9. State one function of the radicle to seedlings at the germination stage.
10. Give the method of separating beans seeds from maize seeds.
11. How does friction affect the efficiency of simple machines?
12. Name the component of blood affected by leukemia.
13. Give one way in which halteres are useful to insects.
14. Why are queen bees fed on royal jelly by nurse bees?
15. Give one characteristic that enables sand soil to be suitable for cleaning utensils.



The diagram below shows lower parts of the human skeleton. Use it to answer questions 17 and 18.



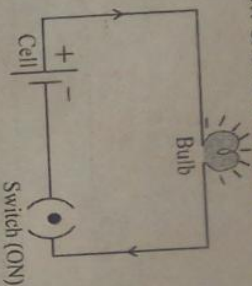
- 16. Identify the bone marked **D**.  
.....
- 17. Give **one** way in which joint **A** is similar to joint **B**.  
.....
- 18. State **one** way in which the unborn baby acquires immunity.  
.....
- 19. Write **one** example of an egg laying mammal.  
.....
- 20. Name the primary sex organ in female human beings.  
.....
- 21. Give any **one** way in which planting trees promotes food security in your community.  
.....
- 22. Which force enables people to harvest rain water from the sky.  
.....
- 23. Identify any **one** beehive without a queen excluder.  
.....
- 24. State **one** example of stem tubers apart from Irish potatoes.  
.....
- 25. How do birds differ from other vertebrates?  
.....
- 26. Mention any **one** material used to make compost manure.  
.....
- 27. Give **one** way in which the stomata are useful to plants during photosynthesis.  
.....  
Eugene was walking in the kitchen and accidentally stepped on hot charcoal.
- 28. Which injuries did Eugene get?  
.....
- 29. State **one** way of managing the injuries Eugene sustained.  
.....

30. Which substance in the human nose warms air?

31. Give a reason why light is seen before sound is heard during a thunderstorm.

32. State **one** cause of bad breath in the mouth.

The diagram below shows a simple electric circuit. Use it to answer questions 33 and 34.



33. Give **one** function of the switch.

34. What do the arrows on the wire represent?

35. State the importance of timely collection of eggs in a poultry house.

36. Which digestive juice contains pepsin enzymes?

37. Give **one** advantage distilled water has over a filtered water.

38. Mention any **one** food crop propagated by cuttings.

39. State **one** way in which drugs are protected against contact with moisture in a home.

40. Define the term food taboos.

SECTION B: 60 MARKS

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

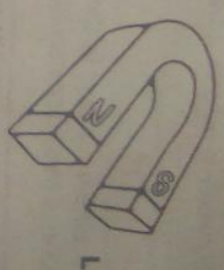
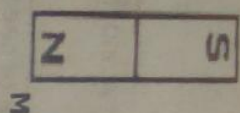
41. (a) Name any **two** examples of birds of prey.

(i) .....

(ii) .....

(b) Explain **one** way in which birds of prey are adapted to their mode of feeding. (2 Marks)





(a) Name the magnet L.

(b) State what happens when magnet M is brought closer to L as shown above?

(c) Give a reason to support your answer in (b) above.

(d) Give **one** way in which magnet M can be useful to watch repairers.

43. (a) To which type of change does rusting belong?

(b) Give **one** way in which rusting is similar to seed germination.

(c) Describe how painting protects iron metals from rusting.

(2 Marks)

44. (a) Mention any **two** sanitary items found in a clean home.

(i)

(ii)

(b) State any **two** ways of managing rubbish in a home.

(i)

(ii)

45. (a) Name any **one** living source of light.

(b) Give **one** way in which light and sound are similar.

(c) Name the type of beam that spreads out from the source.

(d) In which **one** way is light important to plants in the environment?

6. (a) Apart from water, write **two** other examples of renewable energy resources.

(i)..... (ii).....

(b) Give **two** ways in which water is used as an energy resource.

(i).....

(ii).....

7. The table below shows different plants in the environment in part **A** and their adaptations to the mode of seed dispersal in part **B**.

A: Plants	B: Adaptation to the mode of seed dispersal
Black Jack	Are juicy and tasty
Coconut seeds	Have parachute and wing like structures
Beans and soyabeans	Has hooks Sticky hairs for attachment onto the animal skin
Dandelions and tridax	Have spongy mesocarp and air spaces
	Bear seeds in pods which split open to release seeds

Select the correct adaptation to the mode of dispersal from part **B** and write in the space provided below.

(a) Black Jack: .....

(b) Coconut: .....

Beans and soyabeans: .....

Dandelion and tridax: .....

(a) Apart from pulleys, give **one** other type of simple machines used to lift materials up the building.

.....

Mention any **one** situation where pulleys are used at school.

.....

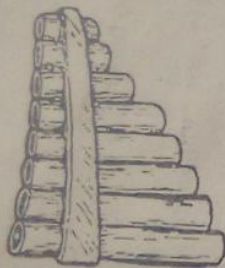
8. A man used a single movable pulley to lift a load of **25N** through a distance of **5metres** from the ground. What effort did he apply on the pulley to overcome the load?

(2 marks)



49. (a) Give the meaning of the term pitch of sound.

(b) To which group musical instruments does the instrument drawn below belong?



(c) Using letter **T**, indicate the pipe that produces the highest pitched sound.

(d) Name **one** other musical instrument you would group together with the above.

50. (a) Name the part of the flower that provides pollen grains to bees.

(b) State **two** characteristics that enable flowers to attract bees.

(i)

(ii)

(c) Give any **one**-way flowers help to fight scurvy among people.

51. (a) Give the meaning of the term food preservation.

(b) Explain **one** way how smoking preserves fish. (2marks)

(c) Which other method of food preservation involves heat?

52. (a) Mention any **two** examples of accidents that causes bleeding in casualties.

(i)

(ii)

(b) Give any **two** uses of water when administering first aid to casualties.

(i)

(ii)

53. (a) Give **one** way in which diarrhea and dysentery;

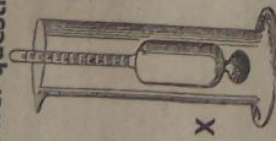
(i) Are similar.....

(ii) Differ.....

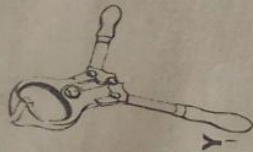
(b) Give **one** way in which diarrhea is dangerous to human health.

(c) State **one** way in which dysentery can be prevented in your community.

54. The diagrams below show tools used on a cattle farm. Study and use them to answer questions that follow.



X



Y



W

(a) Name the tool W.

(b) Give **one** use of X and Y on the cattle farm.

(i) X: .....

(ii) Y: .....

(c) Mention the type of cattle farm where tool X and W are used.

55. (a) Apart from yeast, give **two** examples of fungi.

(i) .....

(ii) .....

(b) Give **one** way in which yeast differs from other fungi in terms of reproduction.

(c) State any **one** way in which yeast is useful to people.