

# SCIENCE PLE 2018

## CANDIDATE'S INFORMATION

Index number :

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Name :

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Signature :

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School name :

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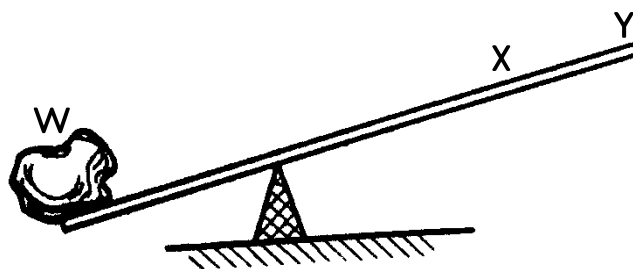
District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. State any one sign of a compound fracture.  
\_\_\_\_\_
2. What happens when a new queen is born in a hive?  
\_\_\_\_\_
3. Which human body organ balances the amount of water needed in the body?  
\_\_\_\_\_
4. Give any one disorder of the human digestive system.  
\_\_\_\_\_

The diagram below is of a crow bar. Study and use it to answer questions 5 and 6.



5. Which of the two positions X and Y requires less effort to overcome the load W?  
\_\_\_\_\_
6. Indicate on the diagram with an arrow E, the direction of the effort used to overcome the load W.
7. Why do houseflies lay their eggs in decaying matter?  
\_\_\_\_\_

8. Why is a fuse made of a thin wire?

9. Where are seeds of coniferous plants found?

10. How is the function of anthers in flowers similar to that of testes in humans?

11. How do farmers control the breeding of poor quality animals on their farms?

12. By what process is alcohol made from fruit juice?

13. Give any one way in which school children can promote immunisation in their community.

14. What First Aid would you give to a child who has taken paraffin?

15. State the importance of observing good posture to the human body.

The diagram below shows a fruit crop. Use it to answer questions 16 and 17.



16. How is the above crop propagated?

17. Give one other crop which is propagated in the same way as the crop shown above.

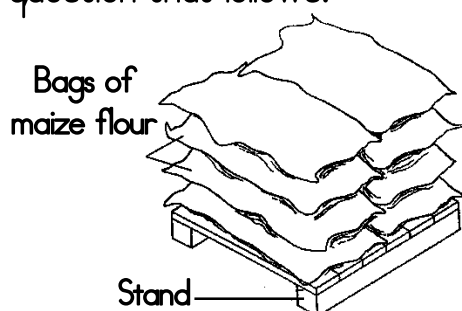
18. Give any one way in which human beings can prevent tapeworm infection.

19. How does smoking control the effect of bacteria in food preservation?

20. How are arteries able to withstand pressure of blood pumped from the heart?

21. State any one way in which people use sand soil.

22. Give any one disadvantage of overcrowding chicken in their house.
- 
23. Which part of a maize grain absorbs and supplies food to the embryo?
- 
24. What is the importance of the black lining inside a solar drier?
- 
25. Mention any one factor considered when sorting clothes for washing.
- 
26. Apart from removing dirt, why should the udder and teats be washed with warm water before milking?
- 
27. How does prolonged breastfeeding help in child spacing?
- 
28. What type of change is moulting in insects?
- 
29. How is a lunar eclipse formed?
- 
30. What determines the sinking or floating of an object in water?
- 
31. How does covering of food during cooking help to conserve wood fuel?
- 
32. State any one characteristic of images formed on the retina.
- 
33. Why are eagles referred to as birds of prey?
- 
34. The diagram below shows bags of maize flour in a store. Use it to answer the question that follows.



Why are the bags of maize flour put on such a raised stand?

---

---

35. How is water as a renewable resource replaced in the environment?  
\_\_\_\_\_
36. Give any one way in which proper disposal of wastes is important in our environment.  
\_\_\_\_\_
37. What would you do to a guitar string to make it produce a high pitched sound?  
\_\_\_\_\_
38. Why do the lungs expand during breathing in?  
\_\_\_\_\_
39. Give any one way in which the spread of Hepatitis B disease can be controlled.  
\_\_\_\_\_
40. How are plants important in a food chain?  
\_\_\_\_\_

### **SECTION B: 60 MARKS**

41. a. Name the outermost layer of the human skin.  
\_\_\_\_\_
- b. State any one waste product removed by the skin.  
\_\_\_\_\_
- c. Apart from removing wastes, mention two other functions of the human skin.  
i. \_\_\_\_\_  
ii. \_\_\_\_\_
42. The diagram below shows a glass container into which water and cooking oil were poured. The two liquids settled as shown. Study and use it to answer the questions that follow.
- The diagram shows a cylindrical glass container. It is partially filled with two liquids. The top liquid, labeled 'Q', is represented by a pattern of small horizontal dashes. The bottom liquid, labeled 'R', is represented by a pattern of small 'v' shapes. The container itself is labeled 'Glass container' on the left side.
- a. Which of the two liquids is represented by:  
Q \_\_\_\_\_  
R \_\_\_\_\_
- b. State any one method that can be used to separate the two liquids.  
\_\_\_\_\_
- c. Why has liquid Q settled on top of liquid R?  
\_\_\_\_\_

43. In the table below, part A shows processes in human reproduction. Part B shows meaning of the processes in their wrong order.

A: Processes	B: Meaning
a. Ovulation	union of a sperm and an ovum.
b. Implantation	release of ovum from ovary.
c. Pregnancy	attachment of the embryo on the uterus wall.
d. Fertilization	a period from fertilization to birth.

Select from the table the correct meaning of the processes and write in the space provided below.

- a. Ovulation \_\_\_\_\_
- b. Implantation \_\_\_\_\_
- c. Pregnancy \_\_\_\_\_
- d. Fertilization \_\_\_\_\_

44. a. Write down any two causes of weathering of rocks.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

- b. Apart from weathering, name the other process by which soil is formed.

- c. How do living organisms in soil help to improve soil fertility?

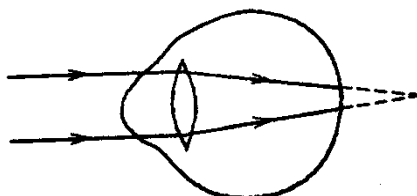
45. a. Give the importance of each of the following components of oral rehydration solution (ORS) to a patient.

- i. Sugar \_\_\_\_\_
- ii. Water \_\_\_\_\_

- b. Apart from using ORS, give two other ways of replacing lost fluids in a patient.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

46. The diagram below shows a defect of the human eye. Study and use it to answer the questions that follow.



a. Name the eye defect shown above.

\_\_\_\_\_

b. State the two causes of the eye defect shown above.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. What type of lens is used to correct the above eye defect?

\_\_\_\_\_

47. The table below shows weather elements, instruments and their uses. Study and complete it correctly.

Element	Instrument	Use
Rainfall	_____	Measures the amount of rainfall.
_____	Hygrometer	Measures the amount of water vapour in the atmosphere.
Wind	_____	Measures the speed of wind.
temperature	thermometer	_____ _____

48. a. State the two ways in which animals depend on other animals.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Give any two ways in which plants depend on other plants.

i. \_\_\_\_\_

ii. \_\_\_\_\_

49. The following is a list of animals that belong to different classes of vertebrates. Use it to answer the questions that follow.

**Monkey, Parrot, Crocodile, Tilapia**

a. In which class of vertebrates does a crocodile belong?

\_\_\_\_\_

b. Name the class of vertebrates which is not represented in the above list.

\_\_\_\_\_

c. Identify any one animal from the above list which is cold blooded.

\_\_\_\_\_

d. How is the reproduction of tilapia different from that of a parrot?

50. a. Give one reason why drugs should be kept;

i. Away from moisture and sunlight

ii. Out of reach of children

b. State any two ways in which people in a family can misuse drugs.

i. \_\_\_\_\_

ii. \_\_\_\_\_

51. a. What germ causes mastitis in cattle?

b. Give any two signs of mastitis.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. State any one way of controlling mastitis in cattle.

52. a. Give any two qualities of seeds that can germinate.

i. \_\_\_\_\_

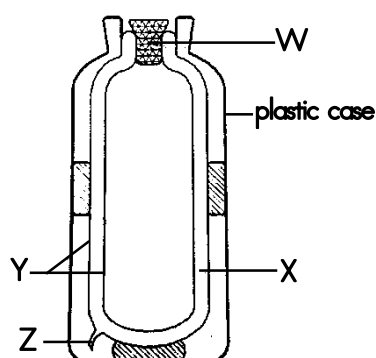
ii. \_\_\_\_\_

b. State any two farm practices which help in controlling insect pests in a garden.

i. \_\_\_\_\_

ii. \_\_\_\_\_

53. The diagram below is of a thermos flask. Study and use it to answer the questions that follow.



a. Name the parts labelled Y and Z.

Y \_\_\_\_\_

Z \_\_\_\_\_

b. Give any one material that can be used for making part W.

\_\_\_\_\_

c. Why is part X able to prevent heat loss by conduction and convection?

---

54. a. State any two differences between the external parts of a hen and those of a cock.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Write down any one product got from poultry birds.

---

c. Give any one way in which farmers can improve on the quality of their local breeds of chicken.

---

55. a. Give any two possible ways through which a baby can get HIV/AIDS from a mother.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. State any two ways in which an HIV positive pregnant woman can protect her unborn baby from getting HIV/AIDS.

i. \_\_\_\_\_

ii. \_\_\_\_\_



# SCIENCE PLE 2017

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## SECTION A: 40 MARKS

56. State the injury caused by steam to a human body.

\_\_\_\_\_

57. What type of electricity is lightening?

\_\_\_\_\_

58. Give one way in which termites benefit from soil.

\_\_\_\_\_

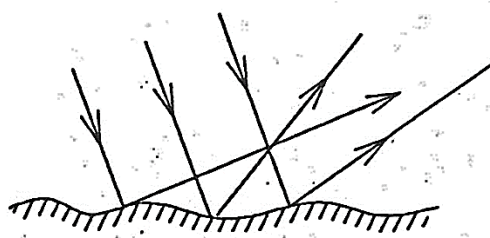
59. State one effect of gonorrhoea on the female reproductive system.

\_\_\_\_\_

60. What is the importance of gap filling in crop growing?

\_\_\_\_\_

The diagram below shows reflection of light. Study and use it to answer questions 6 and 7.



61. What type of reflection is shown above?

\_\_\_\_\_

62. Why are the rays reflected as shown in the diagram?

\_\_\_\_\_

63. State any one way in which alcoholism affects a family.
- 
64. State any one reason why animals make sound.
- 
65. Name the process through which water turns into ice?
- 
66. In which one way does tooth paste promote oral health?
- 
67. State any one physical change that takes place during the process of distillation of alcohol.
- 
68. What is the importance of the rings of cartilage of the trachea in the respiratory system?
- 
69. Why does a nail sink in water?
- 
70. Give any one danger of wetland drainage to water animals.
- 
71. State any one principle of Primary Health Care.
- 
72. Why are laying boxes put in dark corners of a poultry house?
- 
73. Apart from causing diseases, give one other way fungi are harmful to people.
- 
74. How is a reflected sound helpful to sailors?
- 
75. Give one way in which molluscs are different from other invertebrates.
- 
76. Give any one mineral deficiency disease in humans.
-

77. Name the type of bees which develops from unfertilized eggs.

---

78. State any one way in which the spread of germs by houseflies can be controlled.

---

The diagram below shows a germinating seed. Study and use it to answer questions 24 and 25.



79. What type of germination is shown in the diagram above?

---

80. To which group of flowering plants does the germinating seed belong?

---

81. State any one way in which saliva is useful in the process of digestion.

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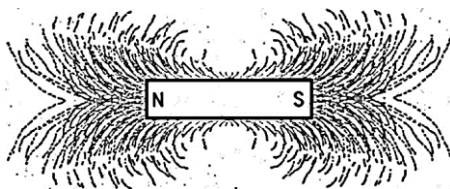
82. Name the vaccine which is given to prevent three childhood immunisable diseases.

---

83. Give one reason why less effort is applied to move a load using first class levers.

---

84. The diagram below shows a bar magnet with iron filings around it. Study and use it to answer the question that follows.



Which property of magnets is shown in the diagram?

---

85. State any one sign of disease on plant leaves.

---

86. Name the organ which regulates the human body temperature.

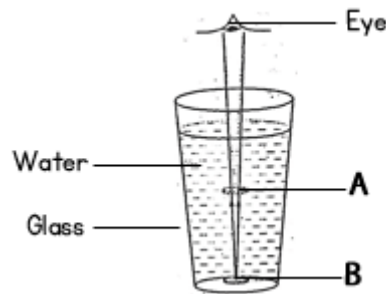
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87. State any one way in which animals can be used as energy resources.

88. Which method of harvesting trees allows new shoots to grow from the stump?

89. Give any one way of controlling the bad smell in an ordinary pit latrine.

The diagram below shows an object in a glass of water. Study and use it to answer the question that follows.



90. Why does the object seem to appear at point A yet it is at point B?

91. State any one sign of the snuffle disease in rabbits.

92. Which property of air makes the lungs expand when you breathe in?

93. Apart from curing diseases, give one other characteristic of essential drugs.

94. Why is bio gas regarded as an environmentally friendly source of energy?

95. State any one characteristic of seeds dispersed by wind.

### **SECTION B: 60 MARKS**

96. a. Give any two signs which show that a baby is dehydrated.

i. \_\_\_\_\_

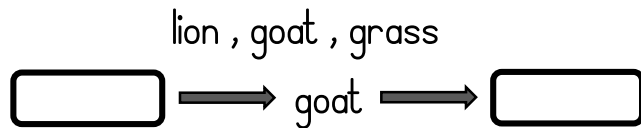
ii. \_\_\_\_\_

b. State any two pieces of advice you would give to a mother whose baby is dehydrated.

i. \_\_\_\_\_

ii. \_\_\_\_\_

97. a. Use the living things listed below to complete the given food chain.



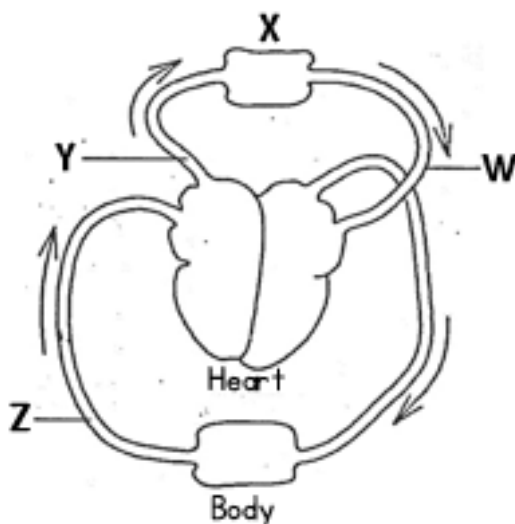
- b. Which one of the living things in the food chain above is a producer?

---

- c. What is the source of energy for the producer in the food chain above?

---

98. The diagram below shows the circulation of blood in the human body. Study and use it to answer the questions that follow.



- a. Name the organ marked with letter X.

---

- b. Which blood vessel is marked with letter W?

---

- c. State the similarity between blood vessel Y and blood vessel Z.

---

---

- d. Why does blood vessel W bring blood back to the heart?

---

---

99. a. Write down any two causes of soil erosion.

i. 

---

ii. 

---

- b. Which agent of soil erosion causes gullies?

---

- c. How does soil erosion lead to soil infertility?

---

100. The table below shows the information collected from five homes during a health survey. Study it to answer the questions that follow.

Homes	Sanitation items checked			
	Latrine	Rubbish pit	Bathing shelter	Drying rack
A	×	×	✓	×
B	✓	✓	✓	✓
C	×	✓	✓	✓
D	×	×	×	✓
E	×	✓	✓	×

- a. Which home had all the sanitation items?
- \_\_\_\_\_
- b. Identify the sanitation item missing in most of the homes surveyed.
- \_\_\_\_\_
- c. Name any one disease that is likely to attack homes A, C, D and E.
- \_\_\_\_\_
- d. Give any one other sanitation item which could be added in the health survey.
- \_\_\_\_\_

101. a. What causes fainting?

\_\_\_\_\_

b. State any two conditions that can lead to fainting.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

c. Why are the legs of a person who has fainted raised higher than the head when giving first aid?

\_\_\_\_\_

102. Use the list of crops given below to answer the questions that follow:

conifer, coffee, cassava, ground nut

a. Which crop on the list is propagated by use of stem cutting?

\_\_\_\_\_

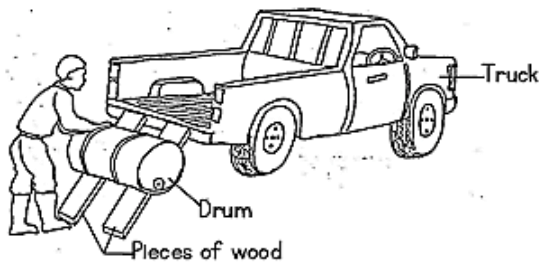
b. Identify any one crop on the list which is;

- An annual crop \_\_\_\_\_
- A perennial crop \_\_\_\_\_

c. Give any one way in which a conifer is different from all other crops on the list.

---

103. The diagram below shows a man using a simple machine to load a drum onto a truck. Study and use it to answer the questions that follow.



a. What type of simple machine is the man using?

---

b. Give any two examples of the type of simple machine you have named in (a) above.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. How can the man improve on the simple machine above in order to make his work easier?

---

104. a. Which breed of cattle is obtained by mating a pure local breed and an exotic breed?

---

b. Give any two reasons why some farmers prefer keeping local breeds of cattle to exotic breeds.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. State any one characteristic of dairy cattle.

---

105. a. Name any two bones that form the joint at the knee of the human body.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. What name is given to the joint at the knee?

---

c. In which one way is friction reduced at a joint?

---

106. The table below shows some common infections, organisms that cause it and the body parts affected. Study and complete it correctly.

Common infectious	Organisms that cause it	Body parts affected
_____	Chlamydia	Eyes
Tuberculosis	Bacteria	_____
_____	Virus	Bones and muscles
Scabies	_____	Skin

107. a. Apart from rainfall, give one other element of weather necessary for plant growth.

\_\_\_\_\_

- b. In which two ways is rainfall important to plant growth?

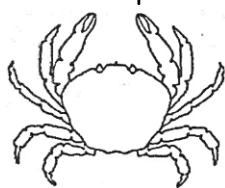
i. \_\_\_\_\_

ii. \_\_\_\_\_

- c. State any one disadvantage of too much rainfall to plants.

\_\_\_\_\_

108. The diagrams below show animals in the arthropods group. Study and use them to answer the questions that follow.



**X**



**Y**



**Z**

- a. Name the group of arthropods to which animals X and Y belong.

X \_\_\_\_\_

Y \_\_\_\_\_

- b. Give any one reason why animal Y does not belong to the same group as animal Z.

\_\_\_\_\_

- c. How are animals X, Y and Z similar in the way they reproduce?

\_\_\_\_\_



109. a. Apart from raising the temperature of substances, give any other two effects of heat on matter.

i. \_\_\_\_\_

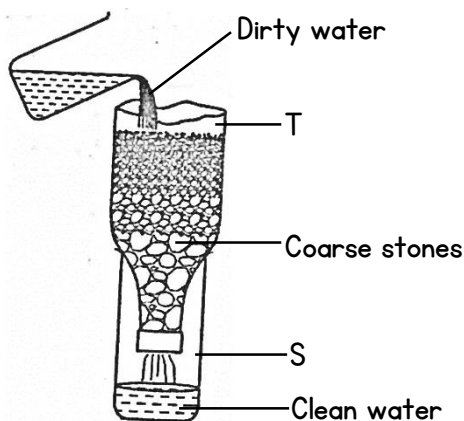
ii. \_\_\_\_\_

b. State any two ways in which heat transfer by conduction is important to people.

i. \_\_\_\_\_

ii. \_\_\_\_\_

110. The diagram below shows a simple method of making water clean. Study and use it to answer the questions that follow.



a. Name the method shown above.

\_\_\_\_\_

b. Apart from the coarse stones, name any two other local materials which are placed in container T.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. Why should the clean water obtained in container S be boiled before drinking?

\_\_\_\_\_

# SCIENCE PLE 2016

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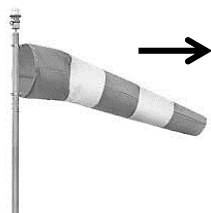
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District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Name the gas used in fire extinguishers.  
\_\_\_\_\_
2. State the eye disease spread by houseflies.  
\_\_\_\_\_
3. Which part of a fish performs a similar function as the human ear?  
\_\_\_\_\_
4. Name the male reproductive cells in flowers.  
\_\_\_\_\_
5. Give any one way in which wood fuel can be conserved.  
\_\_\_\_\_
6. The diagram below is of a weather instrument. Use it to answer the question that follows.

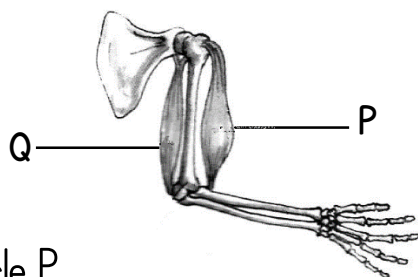


What is the use of this instrument at the weather station?

7. Which method of heat transfers enables a person to iron clothes using a flat iron?

8. Why should cold water be poured on the part of the body which has been scalded or burnt?
- 
9. Apart from decomposition, in which other way is soil formed?
- 
10. What is the importance of smoke during the harvesting of honey?
- 
11. State the class of lever in which the effort is between the fulcrum and the load.
- 
12. Give a reason why male anopheles mosquitoes do not transmit malaria parasites to humans.
- 
13. How can foot and mouth disease be controlled in cattle?
- 
14. Give one way in which farmers can improve on the supply of nitrogen in the soil without the use of artificial fertilisers.
- 

The diagram below is of a human arm. Study and use it to answer questions 15 and 16.



15. Name muscle P.
- 
16. What happens to muscle Q when the arm is raised.
- 
17. Which intestinal worm enters the human body through bare feet?
- 
18. How do plants make use of the gas given out by animals during respiration?
-

19. State any one use of plane mirrors to people.
- 
20. Apart from helping in pollination, give one other way in which wind is useful to plants.
- 
21. Which part of a maize grain has a similar function as the cotyledon of a bean seed?
- 
22. State any one characteristic which shows that a bat is a mammal.
- 
23. Which blood cells carry oxygen in the body?
- 
24. Give any one reason why breast feeding is encouraged for at least two years?
- 
25. Name any one scale in which temperature is measured.
- 
26. The diagram below shows two bar magnets placed close to each other. Use it to answer the question that follows.



Use arrows to show what happens to the two bar magnets.

- 
27. Name the human body system to which the lungs, kidneys and the skin belong.
- 
28. Give any one way in which bacteria in pit latrines are useful.
- 
29. Name one disease that affects the stomach because of alcoholism.
- 
30. Apart from polio vaccine, name any other vaccine administered to children at 6 weeks of age.
-

31. In which part of the human alimentary canal is water absorbed?

---

32. What is the danger of having too much wax in the human ear?

---

33. What form of energy is produced by dry cells?

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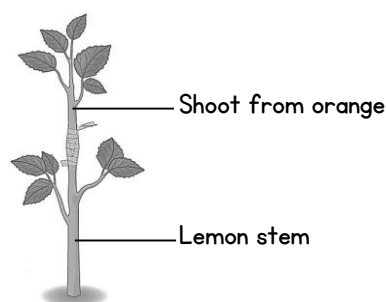
34. Give any one good health habit that can improve the working of the lungs.

---

35. Apart from eating a balanced diet, give any one other way of controlling common diseases at home.

---

36. The diagram below shows a method of plant propagation. Use it to answer the question that follows.



Name the method of plant propagation shown in the diagram above.

---

37. Which organs are used by both fish and tadpoles for breathing?

---

38. Give any one secondary sex characteristic which is common to both adolescent boys and girls.

---

39. Name the fungi which normally grows on left over foods.

---

40. What happens to light rays when they meet a convex lens?

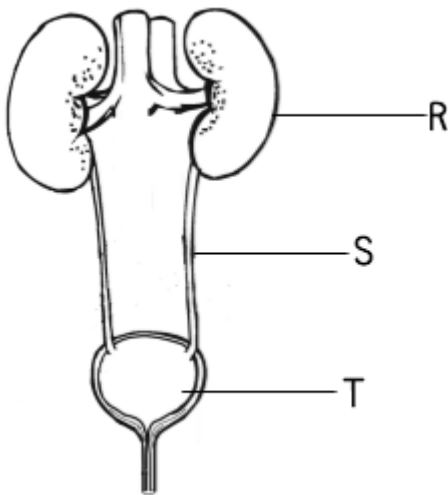
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## SECTION B: 60 MARKS

### (Questions 41 to 55 carry 4 marks each)

41. a. State any two ways in which vectors spread diseases to humans.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
- b. Give any two ways of preventing vectors from spreading diseases to humans.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_

42. The diagram below is of a human urinary system. Study and use it to answer the questions that follow.



- a. Name the parts marked S and T
- S \_\_\_\_\_
- T \_\_\_\_\_
- b. What is the function of part marked R.
- \_\_\_\_\_
- \_\_\_\_\_
- c. Give any one disease that affects the above system.
- \_\_\_\_\_

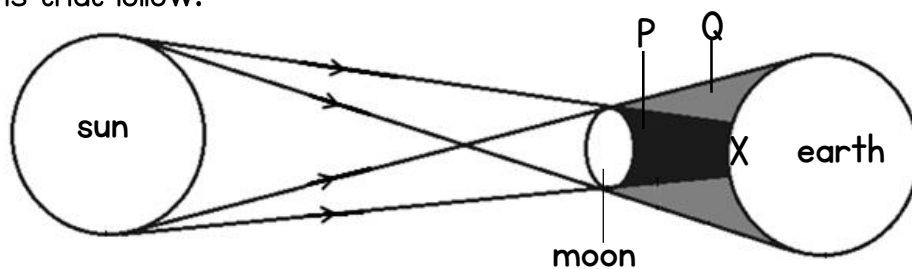
43. In the table below, part A shows activities carried out by farmers and part B shows the effects of the above activities.

Part A (activities)	Part B (effects)
Irrigation	preserves moisture.
Afforestation	leads to the death of crop pests.
Mulching	promotes convectional rainfall.
Crop rotation	allows growth of crops in all seasons.

Write the correct effect to the activity in the space provided below:

- a. Irrigation \_\_\_\_\_
- b. Afforestation \_\_\_\_\_
- c. Mulching \_\_\_\_\_
- d. Crop rotation \_\_\_\_\_

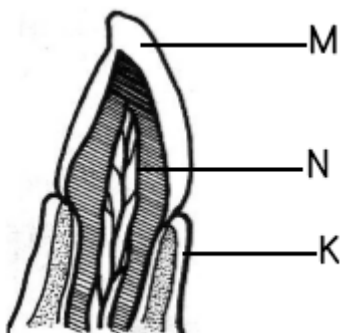
44. a. Give any two examples of non-renewable resources in the environment.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- b. State any two ways of conserving non-renewable resources.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_
45. a. To which group of plants do ferns and liverworts belong?
- \_\_\_\_\_
- b. How is the reproduction of ferns similar to that of liverworts?
- \_\_\_\_\_
- c. Give two other plants that reproduce in the same way as ferns and liverworts.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_
46. a. Name the change of state which takes place when;
- Vapour changes to liquid. \_\_\_\_\_
- A solid changes directly to gas. \_\_\_\_\_
- b. Apart from causing change of state, give two other effects of heat on matter.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_
47. The diagram below shows a type of eclipse. Study and use it to answer the questions that follow.



- a. Name the type of eclipse shown in the diagram above.
- \_\_\_\_\_
- b. Name the shadows marked P and Q.
- P \_\_\_\_\_
- Q \_\_\_\_\_
- c. What happens to a person who would be in part X during the eclipse?
- \_\_\_\_\_

48. a. In which one way is each of the following elements of Primary Health Care (PHC) important to the community?
- Water and sanitation \_\_\_\_\_
  - Maternal and child health \_\_\_\_\_
- b. Give any two health care services which are provided through maternal and child health.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
49. a. Name two systems of keeping poultry that enables a farmer to keep large number of birds.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
- b. State any two viral diseases that can spread easily in the above systems of poultry keeping.
- i. \_\_\_\_\_
  - ii. \_\_\_\_\_
50. a. Give any one characteristic which is common to all invertebrates.
- \_\_\_\_\_
- b. To which group of invertebrates does of the following animals belong?
- Snail \_\_\_\_\_
  - Grasshopper \_\_\_\_\_
- c. State one way in which snails may be dangerous to humans.
- \_\_\_\_\_

51. The diagram below shows a section through a human tooth. Study and use it to answer the questions that follow.



- a. Name the parts marked M and K

M \_\_\_\_\_

K \_\_\_\_\_

- b. Which mineral salt helps to form part M?

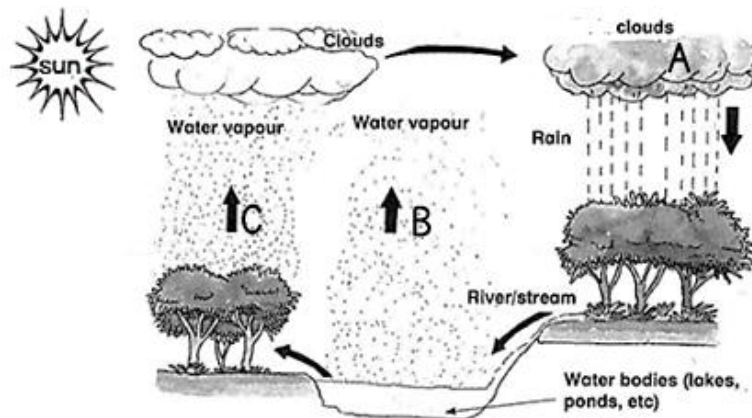
\_\_\_\_\_

- c. Give the function of part labelled N.

\_\_\_\_\_



52. a. State the method that can be used to separate;  
 - fruit seeds from juice. \_\_\_\_\_  
 - Millet seeds mixed with its husks. \_\_\_\_\_
- b. Give the importance of the following steps in cleaning clothes at home.  
 - Sorting \_\_\_\_\_  
 - Soaking \_\_\_\_\_
53. a. Write down any two examples of anti-social behaviours in our community.  
 i. \_\_\_\_\_  
 ii. \_\_\_\_\_
- b. State any two ways of controlling anti-social behaviours in our community.  
 i. \_\_\_\_\_  
 ii. \_\_\_\_\_
54. a. Apart from using solfa notation, mention any two other ways of storing sound.  
 i. \_\_\_\_\_  
 ii. \_\_\_\_\_
- b. Name two instruments used to reproduce the sound stored by solfa notation.  
 i. \_\_\_\_\_  
 ii. \_\_\_\_\_
55. The diagram below shows the water cycle. Study and use it to answer questions that follow.



- a. Name the type of clouds represented by letter A.  
 \_\_\_\_\_
- b. State the process taking place at B and C.  
 B \_\_\_\_\_  
 C \_\_\_\_\_
- c. What is the importance of the sun in the above diagram?  
 \_\_\_\_\_

# SCIENCE PLE 2015

## CANDIDATE'S INFORMATION

Index number :

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Name :

\_\_\_\_\_

Signature :

\_\_\_\_\_

School name :

\_\_\_\_\_

District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Which type of immunity do babies get from their mothers?  
\_\_\_\_\_
2. Name the blood vessel which takes blood from the heart to the lungs.  
\_\_\_\_\_
3. Name the energy resource obtained from animal dung and urine.  
\_\_\_\_\_
4. Mention any one factor that affects the rate of evaporation.  
\_\_\_\_\_
5. State the difference in units used to measure weight and mass.  
\_\_\_\_\_

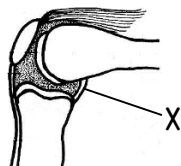
The diagram below shows a simple machine. Use it to answer questions 6 and 7.



6. To which class of levers does the machine above belong?  
\_\_\_\_\_
7. Use an arrow with letter P to show the fulcrum on the diagram.
8. Give any one way in which litter is important in a poultry house.  
\_\_\_\_\_
9. Apart from the bright coloured petals, state one other thing that attracts insects to flowers.  
\_\_\_\_\_

10. State any one way in which drought affects food production in the community.
- 
11. State the difference between the feeding of a tapeworm and a hookworm.
- 
12. Why is water obtained by distillation method not good for drinking?
- 
13. State the sense organ for feeding in the human body.
- 
14. Which property of magnets enables a magnetic compass to work?
- 
15. State any one way which the spread of scabies can be prevented.
- 
16. Why do some plants shed their leaves during dry season?
- 
17. Mention one permanent method of birth control in males.
- 
18. Why does a fish die soon after it has been removed from water?
- 
19. Give the use of a drenching gun to a cattle farmer.
- 
20. Give one reason why pregnant women are advised to feed on food rich in proteins.
- 

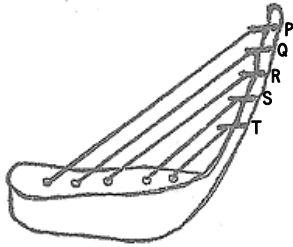
The diagram below shows parts of a joint. Study and use it to answer questions 21 and 22.



21. Name the part marked with letter X.
- 
22. Using letter W, label the part that reduces friction in the joint, apart from the synovial fluid.
-

23. State the method of controlling soil erosion where farmers plough land across a slope.
- 
24. Which element of Primary Health Care helps to prevent tooth decay?
- 
25. State the role of enzymes during food digestion.
- 
26. A part from cameras and microscopes, name any one other optical instrument that uses a lens.
- 
27. Give one way in which mosses are similar to mushrooms in the way they reproduce.
- 
28. Why is tepid sponging an important First Aid to a person with fever?
- 
29. Why are sun birds able to suck nectar from the bottom of flowers?
- 
30. Give an example of mollusk which is a vector to humans.
- 
31. Name the human body system which eliminates wastes.
- 
32. Give any one way in which a VIP latrine is different from an ordinary pit latrine.
- 
33. Name the root crop which is attacked by the mosaic disease.
- 
34. Give any one reason why sheep farmers carry out docking.
- 
35. A part from a flat iron, give any one other appliance used at home that changes electric energy to heat energy.
-

36. The diagram below shows a well-tuned musical instrument. The strings P, Q, R, S and T are of uniform thickness. Use it to answer the question that follows.



Why does string T produce sound of the highest pitch?

---

37. State the any one way in which smoking affects the human respiratory system.
- 

38. Give the importance of plants in a food chain.
- 

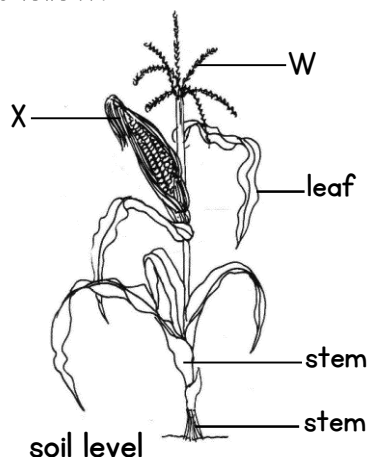
39. Name the fungal caused sexually transmitted disease, which is spread through poor hygiene.
- 

40. State one reason why farmers stake tomato plants.
- 

### **SECTION B: 60 MARKS**

#### **Each question carries 4 marks**

41. a. Give two examples of natural fertilizers.
- -
- b. State any two ways in which natural fertilizers are better than artificial fertilizers.
- -
42. The diagram shows a flowering plant. Study and use it to answer the questions that follow.



- a. To which group of flowering plants does the above plant belong?
- 
- b. What type of root system does the plant have?
-

c. State the importance of the type of root marked Y to the plant.

---

---

---

d. In which one way is part W different from X in their reproductive function?

43. a. Give any two conditions in which women are vulnerable.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

b. State any two ways in which family members can care for vulnerable women.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

44. a. Name the respiratory organs which are protected by the rib cage.

b. What happens to the rib cage during the following stage processes?

- Breathing in \_\_\_\_\_
- Breathing out \_\_\_\_\_

c. Give the use of oxygen we breathe in.

---

45. The table below shows diseases, the vectors that spread them and the disease causing germs. Study and complete it correctly.

Disease	Vector	Germ
Cholera	Houseflies	_____
Yellow fever	_____	Virus
_____	Infected cats	Virus
River blindness	Black flies	_____

46. a. Give the function of each of the following parts of a modern beehive:

- The brood chamber \_\_\_\_\_
- The honey chamber \_\_\_\_\_

b. A part from being used as food, give two other ways in which honey is useful to people.

i. \_\_\_\_\_

ii. \_\_\_\_\_

47. a. What kind of food is made by green plants during photosynthesis?

\_\_\_\_\_

b. State any one raw material used by green plants for photosynthesis.

\_\_\_\_\_

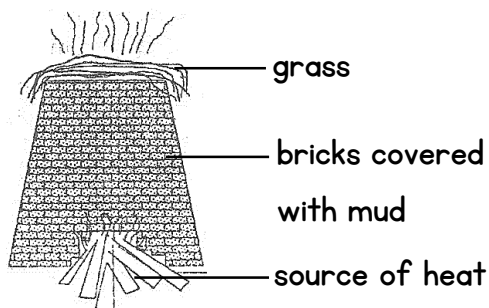
c. How is chlorophyll important during the process of photosynthesis?

\_\_\_\_\_

d. Give one reason why photosynthesis does take place at night.

\_\_\_\_\_

48. The diagram below shows firing bricks in a skin. Study it and use it to answer the questions that follow.



a. Name the source of heat energy used in firing the bricks

\_\_\_\_\_

b. Give any one reason why the bricks are covered with mud before firing starts.

\_\_\_\_\_

c. What is the importance of the grass put on top of the kiln during firing?

\_\_\_\_\_

d. State any one disadvantage of using the above method of firing bricks to the environment.

\_\_\_\_\_

49. The table below shows parts of a human eye in A and those of a camera in B.

A	B
Iris	Shutter
Pupil	Film
Eye lid	Diaphragm
Retina	Aperture

For each of the parts of the human eye, write the part of the lens camera from B which performs a similar function.

- a. Iris \_\_\_\_\_
- b. Pupil \_\_\_\_\_
- c. Eye lid \_\_\_\_\_
- d. Retina \_\_\_\_\_

50. a. Which communicable disease shows signs and symptoms similar to that of tuberculosis?

\_\_\_\_\_

b. Name the one cattle product through which tuberculosis can spread to human beings.

\_\_\_\_\_

c. When is the vaccine against tuberculosis administered in babies?

\_\_\_\_\_

d. Apart from immunization, give one other way in which the spread of tuberculosis can be controlled in humans.

\_\_\_\_\_

51. a. Give any two ways in which alcohol is used in hospitals.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. State any two effects of alcoholism to an individual.

i. \_\_\_\_\_

ii. \_\_\_\_\_

52. a. Apart from the respiratory and body wastes, name any other two materials carried in blood.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Name the component of blood which transport oxygen in the human body.

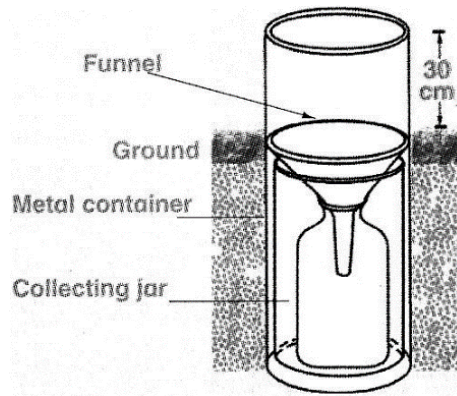
\_\_\_\_\_

c. Which disease causing germ attacks the white blood cells in humans?

\_\_\_\_\_



53. The diagram below shows a weather instrument. Use it to answer the questions that follow.



- a. Name the weather instruction shown in the diagram above.

---

- b. What is the use of the instrument above at weather station?

---

- c. Give reason why people are advised to:

- Put the instrument in an open ground when using it.

---

- Raise the instrument 30cm above the ground when using it.

---

54. a. To which class of vertebrates do toads belong?

---

- b. Give one way in which the breathing of a toad is different from that of a tadpole.

---

- c. State any two ways in which the jelly round the egg of toads is important.

---

---

55. a. Apart from ticks, name any one other cattle pest.

---

- b. State any two diseases spread by ticks to cattle.

---

---

- c. Give any one way in which the tick borne diseases can be controlled.

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# SCIENCE PLE 2014

## CANDIDATE'S INFORMATION

Index number :

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Name :

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Signature :

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School name :

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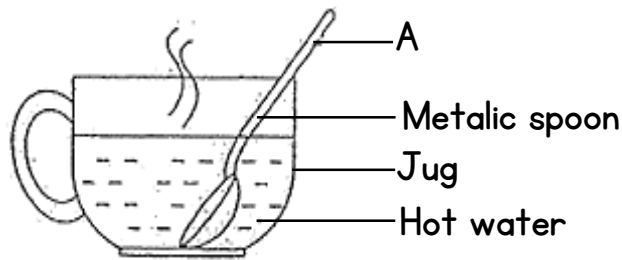
District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Which type of type soil has rough and large particles?  
\_\_\_\_\_
2. In which state of matter does heat travel slowest?  
\_\_\_\_\_
3. To which class of levers does a wheelbarrow belong?  
\_\_\_\_\_
4. Apart from labour, give one other requirement for starting a livestock farm.  
\_\_\_\_\_
5. What kind of accident requires the use of splints in giving the First Aid?  
\_\_\_\_\_
6. Give any one exotic breed of sheep kept for wool production.  
\_\_\_\_\_
7. Which sexually transmitted disease can cause blindness in babies?  
\_\_\_\_\_
8. Name the human body organ that uses light energy for it to function.  
\_\_\_\_\_
9. State one way in which echo can be reduced in a hall.  
\_\_\_\_\_

10. The diagram below shows a piece of metal (spoon) dipped in a jug containing hot water. Use it to answer the question that follows.



How does part A become hot yet it is not in hot water?

---

11. Give any one disadvantage of harvesting honey using fire.
- 
12. How is the BCG vaccine different from the polio vaccine in the way they are given to children?
- 
13. Give one reason why washing of hands after visiting a latrine is a good practice.
- 
14. Which process in plants has a similar function as sweating in humans?
- 
15. Apart from taking wrong dose, give one other way in which drugs are misused.
- 
16. Which condition in babies is shown by sunken soft on the head?
- 
17. Give one way in which plants differ from animals for photosynthesis.
- 
18. How is sun-drying helpful in the preservation of food crops?
- 
19. Why is water grouped under renewable resources?
- 
20. Which mineral helps in the formation of red blood cells in the human body?
-

21. A part from melting, state any one other physical change that takes place in the presence of heat.

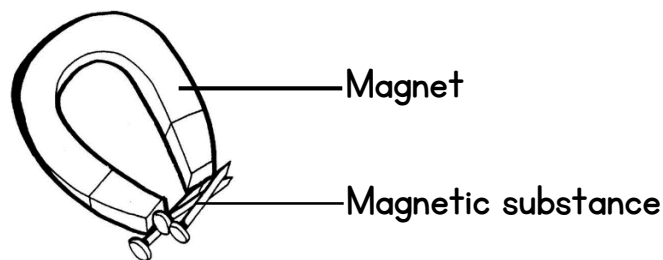
---

22. Name any other one disease of rabbits that affects poultry birds.

---

23. Name the method of making a magnet shown in the diagram below.

---



24. In which method of making water clean, why do you first allow the impurities to settle at the bottom of the container?

---

25. Why does a coin thrown in a basin full of water appear to be nearer to the surface?

---

26. How is the reproduction in whales different from that of fish?

---

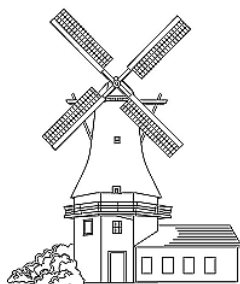
27. Why is it important for government to collect information on human health?

---

28. State any one piece of advice you would give to a person who suffer from indigestion.

---

29. The diagram below shows how electricity is produced. Use it to answer the question that follows.



What source of energy is used to produce the electricity?

---

30. Why does paraffin settle on top when mixed with water?
- 
31. Give any one way in which bacteria are useful to crop farmers.
- 
32. Mention the group of birds to which a crested crane belongs.
- 
33. Which disease is spread to human by rats?
- 
34. How is the function of the pulmonary vein different from that of other veins?
- 
35. Which property of air enables you to drink soda using a straw?
- 
36. Why do plane mirrors produce regular reflection of light?
- 
37. What name is given to a meal containing all the food values in their right amounts?
- 
38. State one way in which married couples can avoid HIV/AIDS among themselves.
- 
39. Give one way in which the use of solar energy is good to our environment.
- 
40. Apart from the number of body parts, state one other difference between arachnids and insects.
-

## SECTION B: 60 MARKS

41. a. Name two poisonous substances found in tobacco.

i. \_\_\_\_\_

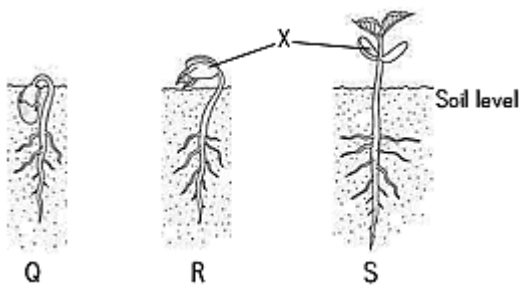
ii. \_\_\_\_\_

b. State any two effects of cigarette smoking by pregnant women to their unborn babies.

i. \_\_\_\_\_

ii. \_\_\_\_\_

42. In the diagram below, Q, R and S show the stages of germination of a seed. Study and use it to answer the questions that follow.



a. Name the part marked X.

\_\_\_\_\_

b. How is the part marked X useful to the seedling at stage S?

\_\_\_\_\_

\_\_\_\_\_

c. Why is the part marked X useless at stage S?

\_\_\_\_\_

d. What type of germination is shown by the seed?

\_\_\_\_\_

43. The table below shows joints and their position in the human body. Study and complete it correctly.

Joints	Position in the body
Pivot joint	_____
_____	Shoulder
_____	Knee
Suture joint	_____

44. a. State any two agents of soil erosion.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Give two ways in which soil erosion can be controlled in hilly areas.

i. \_\_\_\_\_

ii. \_\_\_\_\_

45. a. What type of change takes place when an iron tool rusts?

\_\_\_\_\_

b. Give two conditions necessary for rusting to take place on an iron tool.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. State any one effect of rusting on iron tools.

\_\_\_\_\_

46. a. Apart from egg eating, name any other vice in poultry.

\_\_\_\_\_

b. Give any one cause of egg eating in poultry.

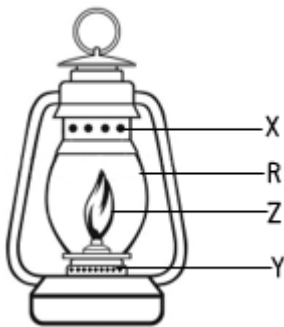
\_\_\_\_\_

c. State any two ways of preventing the egg eating vice in poultry.

i. \_\_\_\_\_

ii. \_\_\_\_\_

47. The diagram below shows a kerosene lamp. Study and use it to answer the questions that follow.



a. Name the part marked with letter Z.

\_\_\_\_\_

b. Why is the part marked R made of glass?

\_\_\_\_\_

\_\_\_\_\_

c. Give the importance of the parts marked X and Y when the lamp is in use.

X \_\_\_\_\_

Y \_\_\_\_\_

48. a. Name the group of crops that are harvested year after year.

\_\_\_\_\_

b. Give any two examples of crops that belong to the group you have named in (a) above.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. State one way in which the above crops are harvested.

49. The table below shows a group of animals A with their reparatory organs in B.

A	B
Tilapia	Moist skin
Mosquito	Lungs
Frog	Gills
Dog	Spiracles

Write against each animal below, its respiratory organ from B.

a. Tilapia \_\_\_\_\_

b. Mosquito \_\_\_\_\_

c. Frog \_\_\_\_\_

d. Dog \_\_\_\_\_

50. a. In the human reproductive system, state where each of the following process take place:

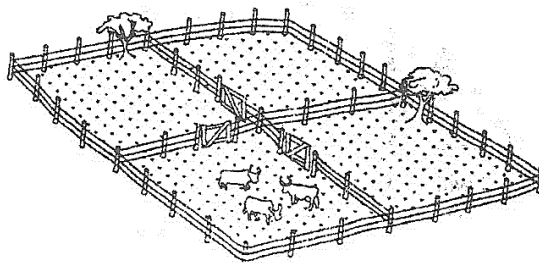
- Implantation \_\_\_\_\_

- Production of sperms \_\_\_\_\_

- Production of female hormones \_\_\_\_\_

b. Give any one use of the placenta to the foetus during pregnancy.

51. The diagram below shows a system of grazing cattle. Study it and use it to answer the questions follow.





a. Name the system of grazing cattle shown in the diagram above.

---

b. Besides restricting the animals, gives two other advantages of this system of grazing cattle.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. State any one disadvantage of the system of grazing cattle shown in the diagram.

---

52. a. Give two ways in which Primary Health Care (PHC) is an important programme in the community.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. State any two roles of a school health committee.

i. \_\_\_\_\_

ii. \_\_\_\_\_

53. a. What name is given to the practice of growing crops and trees together on the same piece of land?

---

b. State any two ways in which crops benefit from trees when they are grown together.

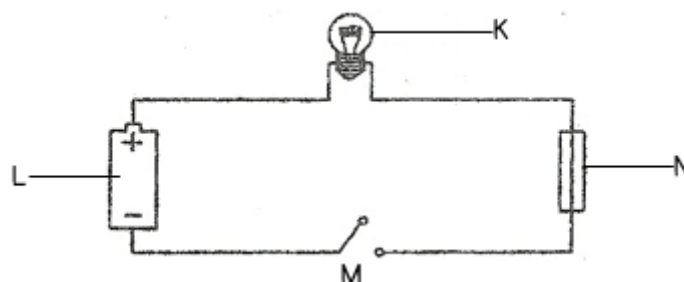
i. \_\_\_\_\_

ii. \_\_\_\_\_

c. Give any one proper method of harvesting trees in the practice names in (a) above.

---

54. Study the diagram of an electric circuit below and use it to answer the questions that follow.



a. Name the parts marked K and N.

K \_\_\_\_\_

N \_\_\_\_\_

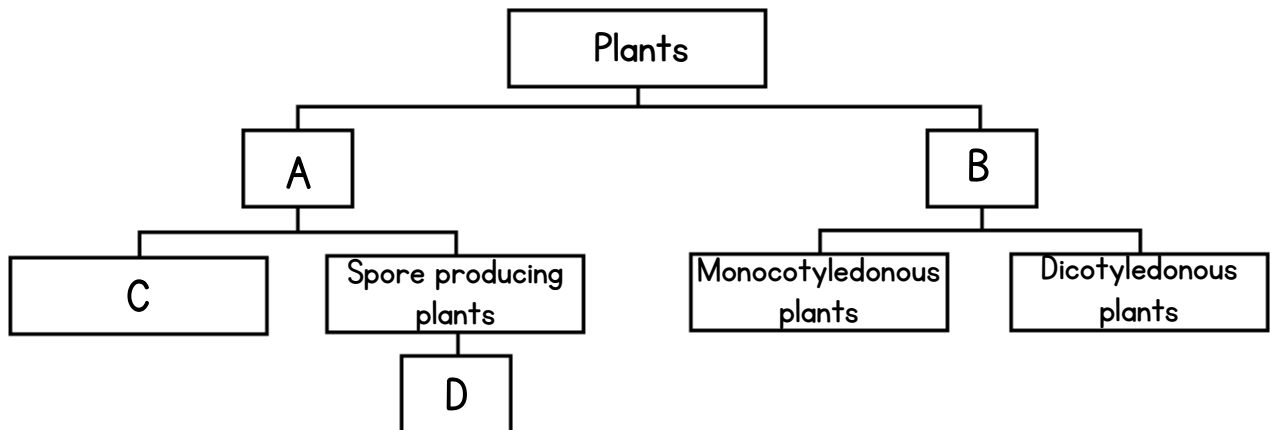
b. State the energy change that takes place at L when M is closed.

\_\_\_\_\_

c. Give any one form of energy produced at K when M is closed.

\_\_\_\_\_

55. The table below shows classification of plants. Study it carefully and use it to answer the questions that follow.



a. Name the group of plants shown by the following letters.

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

b. Give any one plant that belongs to the box labeled D.

\_\_\_\_\_

# SCIENCE PLE 2013

## CANDIDATE'S INFORMATION

Index number :

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Name :

\_\_\_\_\_

Signature :

\_\_\_\_\_

School name :

\_\_\_\_\_

District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Give any one example of a swimming bird.

\_\_\_\_\_

2. Name the animal product used in leather industry.

\_\_\_\_\_

3. State any one property of matter.

\_\_\_\_\_

4. Name the part of the human eye that works like the film in the Camera.

\_\_\_\_\_

5. In which way is the message in the sign post below helpful to school children?

\_\_\_\_\_

**SAY NO TO SEX**

6. Give any one way in which single fixed pulley is used a school.

\_\_\_\_\_

7. Name the body organ which helps a person to know whether there is enough sugar in tea or not.

\_\_\_\_\_

8. Give any one advantage of pruning trees.

\_\_\_\_\_

9. Which method of heat transfer helps farmers to dry their harvested crops?

10. How does a fish benefit from its slippery body?

11. In which way does use of biogas conserve the environment?

The diagram below shows garden tool. Use it to answer questions 12 and 13.



12. Name the garden tool above.

13. How is the tool above important to farmers?

14. Which deficiency disease is caused by lack of vitamin D in children's diet?

15. Why is the water obtained through filtration not necessary safe for drinking?

16. What plant system does the plumule make when it grows?

17. How does leaching reduce soil fertility?

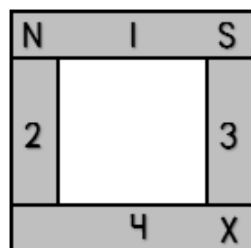
18. Why is it advisable to leave the pit of a VIP latrine open?

19. Name the cattle disease whose sign is a swollen and painful udder.

20. In which part of the female reproductive system does fertilization take place?

21. Why is the left side of the heart able to pump blood to most body parts?

22. State any one way in which trees are able to reduce air pollution.
- 
23. In the space provided below, draw a lens used to correct short sightedness.
- 
24. How is a safety pin in a First-Aid kit important?
- 
25. In which type of change are properties of the substance formed permanently different from those of the original one?
- 
26. How is the function of stomata in a leaf similar to that of gills in a fish?
- 
27. Which component of soil is used by plants to make food?
- 
28. Which structures enable the trachea to remain open all the time?
- 
29. Four bar magnets marked 1, 2, 3 and 4 where placed next to each other as shown below. They attracted each other. Name the pole of magnet 4 marked with letter x.
- 



30. Apart from brushing, how else can dental caries be prevented?
- 
31. State any one way in which friction in moving parts of a machine can be reduced.
- 
32. Give any one way in which yeast is useful to people.
-

33. A part from making food, mention one other use of leaves to plants.

---

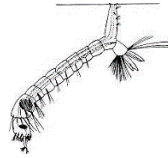
34. State any one characteristic of the images formed by plane mirrors.

---

35. Why do the people installing electricity wear rubber gloves?

---

The diagram below is of mosquito larva. Use it to answer questions 36 and 37.



36. Name the mosquito which develops from such a larva.

---

37. What disease does the mosquito you have named above transmit to human beings?

---

38. How is the propagation of Irish potatoes different from that of sweet potatoes?

---

39. A part from running windmills, give one other way wind is used as an energy resource.

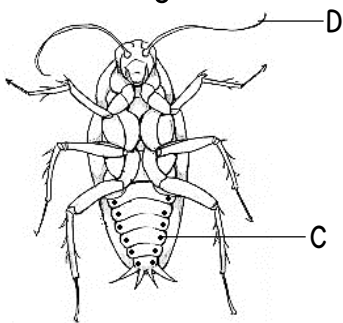
---

40. How do the silvery walls of a vacuum flask reduce heat loss?

---

### **SECTION B: 60 MARKS**

41. The diagram below shows an insect. Use it to answer the questions that follow.



a. Name the parts marked C and D.

C

---

D

---

b. State the function of part marked D.

---

c. Why would an insect die when the whole of its abdomen is dipped in oil?

---

42. a. A part from the lack of conditions necessary for germination, give any two other factors that can make a seed fail to germinate.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Write down any two ways farmers can control pests in the garden without using chemicals.

i. \_\_\_\_\_

ii. \_\_\_\_\_

43. a. Give any two advantages of modern beehive.

i. \_\_\_\_\_

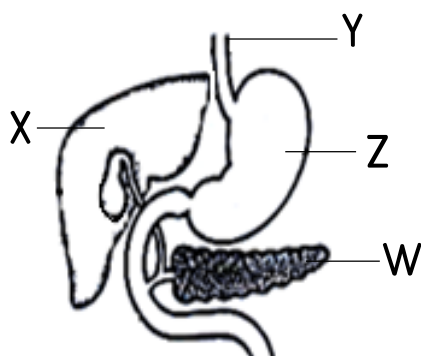
ii. \_\_\_\_\_

b. Write down two things a bee-keeper should consider before setting up beehives.

i. \_\_\_\_\_

ii. \_\_\_\_\_

44. The diagram below is part of the human digestive system. Use it to answer the questions that follow.



a. Name the parts marked Y and W.

Y \_\_\_\_\_

W \_\_\_\_\_

b. State the function of the part marked Z.

\_\_\_\_\_

\_\_\_\_\_

c. Give any one disease that affects the part marked X.

\_\_\_\_\_

45. Match the disease in list A with the signs and symptoms in list B.

List A

Polio

Measles

Tetanus

Diphtheria

List B

swollen neck

stiffness of muscles

paralyzed tissue

skin rash

- a. Polio \_\_\_\_\_
- b. Measles \_\_\_\_\_
- c. Tetanus \_\_\_\_\_
- d. Diphtheria \_\_\_\_\_

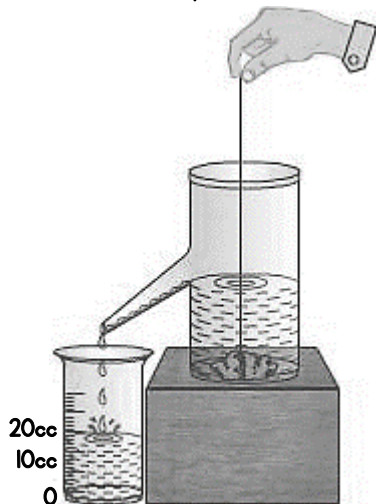
46. a. Give any two ways in which drug dependence can affect an individual.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

b. State two ways in which an individual can avoid drug dependence.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

47. An irregular object was lowered into an overflow can A containing water. The water it displaced was collected in container B as shown below.



a. What is the volume of the irregular object?

\_\_\_\_\_

b. Calculate the density of the irregular object if its mass is 60g.

48. The table below lists of animals. Use it to answer the questions that follow.

P	Q	R
Toad	Chameleon	Cow
Newt	Snake	Monkey
Frog	Lizard	Rat

a. Which characteristic is common to all the animals in the table?

\_\_\_\_\_

b. How is the reproduction in the animals in list P similar to those in list Q?

\_\_\_\_\_

c. Which list has warm blooded animals?

\_\_\_\_\_



d. Why would you place a tortoise in list Q?

49. a. Name any one organism that makes fresh meat go bad.

b. State any three ways of preventing fresh meat from going bad.

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

50. a. Name the human body organ where each of the following takes place.

– Filtration of blood

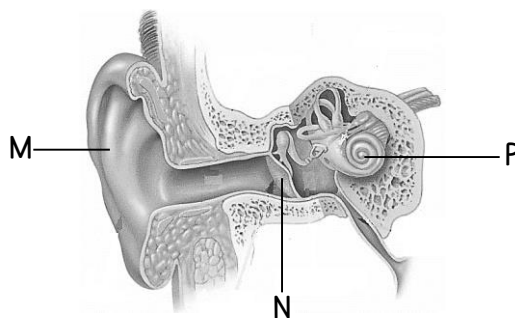
– Blood gets oxygen while carbon dioxide is removed

b. Give the use of the following components of blood in the body.

– White blood cells

– Blood platelets

51. Study the diagram of the human ear below and use it to answer the questions that follow.



a. Name the parts marked M and N.

M \_\_\_\_\_

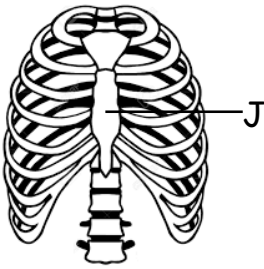
N \_\_\_\_\_

b. Give the function of the marked P

c. Use letter B to show the part of the ear responsible for balancing the body.

52. a. Name any two water-borne diseases.
- \_\_\_\_\_
  - \_\_\_\_\_
- b. In which two ways can water-borne diseases be prevented in the community?
- \_\_\_\_\_
  - \_\_\_\_\_

53. The diagram below shows part of the human skeleton. Use it to answer the questions that follow.



- a. Name the part marked J.

\_\_\_\_\_

- b. State any two delicate body organs protected by the part of the skeleton shown.

- \_\_\_\_\_
- \_\_\_\_\_

- c. How is the part of the human skeleton shown above used during breathing out?

\_\_\_\_\_

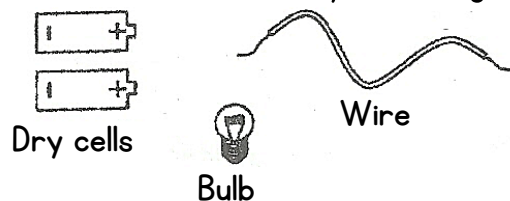
54. a. Write down any two activities that can be done by an individual to promote personal hygiene.

- \_\_\_\_\_
- \_\_\_\_\_

- b. State two ways community members can promote sanitation in their area.

- \_\_\_\_\_
- \_\_\_\_\_

55. Arrange the parts an electric circuit below by drawing to show a complete circuit.



# SCIENCE PLE 2012

## CANDIDATE'S INFORMATION

Index number :

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Name :

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Signature :

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School name :

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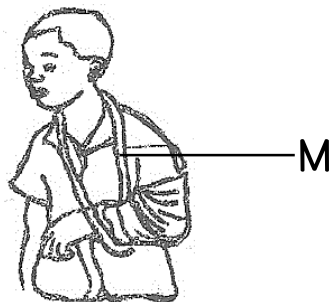
District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Give any one example of root tuber.  
\_\_\_\_\_
2. State one disadvantage of keeping finger nails long.  
\_\_\_\_\_
3. What is the importance of including calcium in chicken feed?  
\_\_\_\_\_
4. What is the use of a wedge as a simple machine?  
\_\_\_\_\_
5. Name the type of lens used to correct long sightedness.  
\_\_\_\_\_

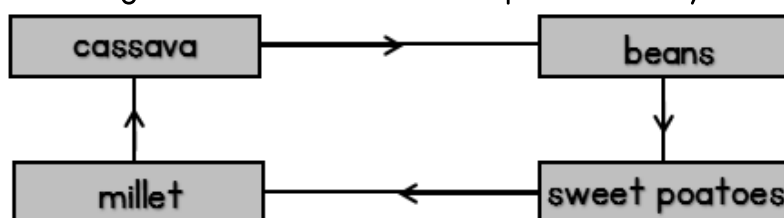
The diagram below shows a person with an injury. Use it to answer question 6.



6. How useful is the structure marked M to the injured person?  
\_\_\_\_\_
7. Apart from mosses, give one other example of a spore bearing non flowering plant.  
\_\_\_\_\_

8. Name any one mammal that lives in water.
- 
9. Give a reason why people keep cats in their homes.
- 
10. Why does a farmer cut off the leaves of banana sucker before planting it?
- 
11. Apart from pasteurizing, give any one way milk can be prevented from going bad.
- 
12. Why is it important for husband and his wife to be treated together if they have got gonorrhea?
- 
13. Why do farmers carry out carry out de-beaking in poultry farms?
- 
14. State any one habit which helps to promote oral health.
- 
15. State one use of soil to earthworms.
- 

The diagram below shows a crop rotation cycle.



16. What is the importance of beans in this cycle to the crops?
- 
17. Which communicable disease in human affects both the skin and the skeletal system?
- 
18. Apart from carbohydrates, name one other class of food that gives the body energy.
- 
19. In which way is the sun important in the formation of rain?
-

20. State any one method used to dirty water clean.

---

21. How does a sweater help to keep a person warm during cold day?

---

The diagram below is of a head of a bird. Use it to answer question 22.



22. What does a bird with this type of beak eat?

---

23. Give any one effect of poor disposal of human wastes in the environment.

---

24. Apart from the egg stage, at what other stage of development is a housefly not active?

---

25. Why does a clay-made charcoal stove use less charcoal than a metallic one?

---

26. Apart from production of egg (ova), mention one other use of the ovaries in the human body.

---

27. State one way in which a child gets natural immunity.

---

28. State the injury that results from tearing of muscles.

---

29. Which gas is used by food manufacturers for preserving drinks like sodas?

---

The diagram below is of a common animal. Use it to answer question 30.



30. Which disease does the above animal spread to humans?

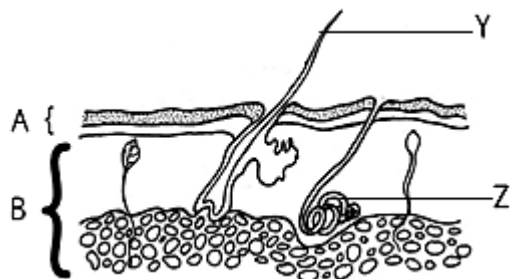
---

31. Why are the legs of a person who has fainted raised higher than the head as a way of giving first aid?
- 
32. What name is given to a place where seedling are grown before transplanting?
- 
33. Which part of the human ear equalizes pressure in and outside the ear?
- 
34. Name one other disease caused by fungi in humans apart from ring worm.
- 
35. What class of food is digested in the stomach?
- 
36. Give any one advantage of castrating farm animals.
- 
37. In the space below, draw a simple diagram of a fibrous root system.
- 
38. How are plastics and glass materials dangerous to soil?
- 
39. Apart from liquids, name one other state of matter through which heat is transferred by convection.
- 
40. In which human body organ does gaseous exchange take place?
- 

### **SECTION B: 60 MARKS**

41. a. Give any two examples of a physical change.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- b. State two characteristics of a chemical change.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_

42. The diagram below is of a human skin. Use it to answer the questions that follow.



a. Name the layers A and B.

A \_\_\_\_\_  
B \_\_\_\_\_

b. Give the function of the parts labeled Y and Z.

Y \_\_\_\_\_  
Z \_\_\_\_\_

43. a. Name the two types of pollination in flowering plants.

i. \_\_\_\_\_  
ii. \_\_\_\_\_

b. Write any two agents of pollination.

i. \_\_\_\_\_  
ii. \_\_\_\_\_

44. a. Give any two disadvantages of keeping local breeds of poultry.

i. \_\_\_\_\_  
ii. \_\_\_\_\_

b. Apart from getting money, give any two other ways a farmer benefits from keeping poultry.

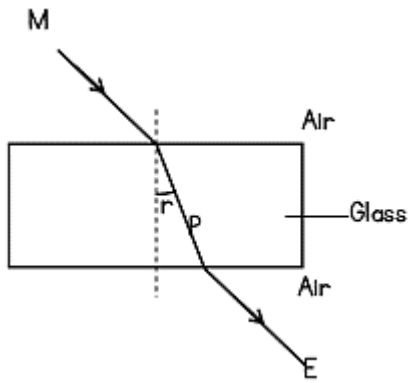
i. \_\_\_\_\_  
ii. \_\_\_\_\_

45. Match each animal in A with the correct group to which it belongs in B.

A	B
Chameleon	mammals
Toad	birds
Bat	reptiles
Ostrich	amphibians

a. Chameleon \_\_\_\_\_  
b. Toad \_\_\_\_\_  
c. Bat \_\_\_\_\_  
d. Ostrich \_\_\_\_\_

46. The diagram below shows how light passes through a glass block. Study and use it to answer question 46.



- a. Name the rays M and P.

M \_\_\_\_\_

P \_\_\_\_\_

- b. Name the angle marked r.

\_\_\_\_\_

- c. Give one reason why ray P bends as shown in the diagram.

\_\_\_\_\_

47. a. Give one reason why dehydration is dangerous to humans.

\_\_\_\_\_

- b. In which way is oral Rehydration Solution (ORS) a good treatment for diarrhea?

\_\_\_\_\_

- c. Apart from taking ORS, how else can one prevent dehydration?

\_\_\_\_\_

- d. How can a person preparing ORS prevent it from contamination?

\_\_\_\_\_

48. The table below shows source of food, the food nutrient in it and the related deficiency disease. Complete it correctly.

Source of food	Food nutrient	Deficiency disease
Fruits	vitamin C	_____
Beans	_____	kwashiorkor
_____	vitamin A	night blindness
Iodized salt	iodine	_____

49. a. Which type of blood vessels returns blood to the heart?

\_\_\_\_\_

- b. What is the function of valves in the blood vessels during blood circulation?

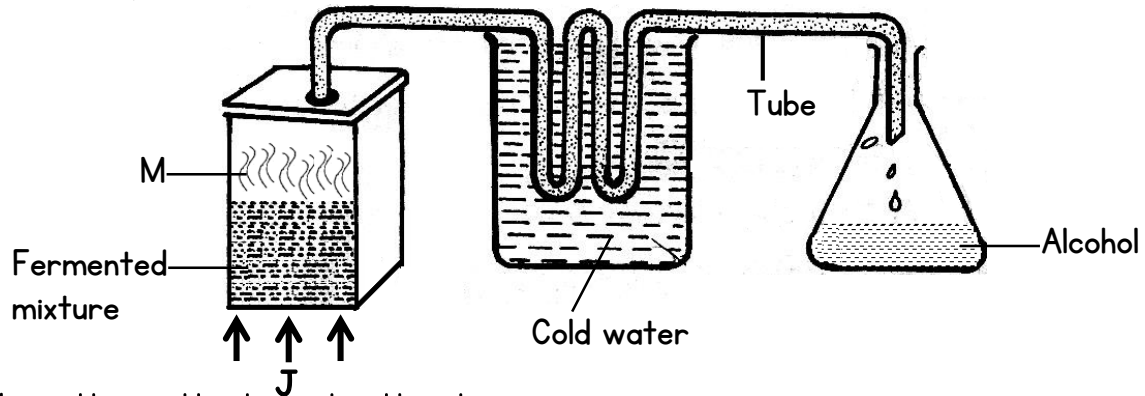
\_\_\_\_\_



c. What type of blood is carried by most blood vessels with valves?

d. Give any one waste material carried by blood.

50. The diagram below shows one of the methods of preparing alcohol. Study and use it to answer question 50.



a. Name the method used in the diagram.

b. What do arrows labeled J represents?

c. Why is the tube passed through cold water?

d. What process forms M?

51. a. A part from ante-natal care, give two other ways of caring for pregnant women.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. In which one way should pregnant protect unborn babies from malaria?

c. Why are pregnant women advised not smoke?

52. a. Name the force that brings downs all objects thrown up.

b. (i). When a piece of paper and rubber are dropped from the same height, which one reaches the ground first?

(ii). Give a reason for your answer in (b) (i) above.

c. Why do some objects float on water?

53. a. State any two reasons why farmers thin their crop.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Apart from thinning, give any two other ways farmers care for their crops.

i. \_\_\_\_\_

ii. \_\_\_\_\_

54. a. Name the type of joint found in each of the following parts of the human body.

– Shoulder \_\_\_\_\_

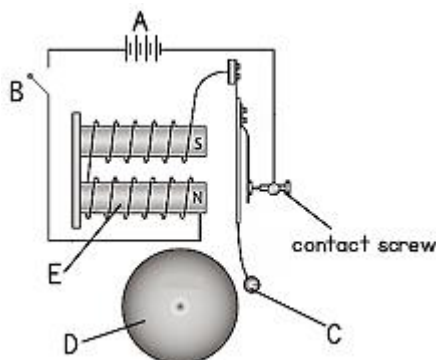
– Wrist \_\_\_\_\_

b. What advice would you give to a person to keep the skeletal system in the health working condition? (give two)

i. \_\_\_\_\_

ii. \_\_\_\_\_

55. Study the diagram of an electric bell below and use it to answer question 55.



a. Name the part marked A and C.

A \_\_\_\_\_

C \_\_\_\_\_

b. What will happen to E when B is closed?

\_\_\_\_\_

c. How useful is part D on the electric bell?

\_\_\_\_\_

# SCIENCE PLE 2011

## CANDIDATE'S INFORMATION

Index number :

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Name :

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Signature :

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School name :

\_\_\_\_\_

District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Name the disease which is spread by a female anopheles mosquito.  
\_\_\_\_\_
2. Which form of energy changes ice to water?  
\_\_\_\_\_
3. Give reason why drugs should be kept away from children.  
\_\_\_\_\_
4. Name the class of simple machines to which an axe belongs.  
\_\_\_\_\_
5. Write down any one example of a plant fiber.  
\_\_\_\_\_

The diagram below is of human eye. Use it to answer questions 6 and 7



6. Name the part marked with letter X.  
\_\_\_\_\_
7. Give the use of the part marked with letter Z.  
\_\_\_\_\_
8. State one type of accident whose First Aid is to put the affected part of the body in cold water.  
\_\_\_\_\_

9. Why should children be given food which is rich in proteins?

---

10. Give one way in which plants depend on soil.

---

11. Give one way in which the umbilical cord is important to the development to the developing fetus in the Uterus.

---

12. Name any one characteristic of seeds which are dispersed by wind.

---

The diagram below shows a fracture. Use it to answer question 13.



13. What type of fracture is shown in the diagram above?

---

14. State the compass direction in which a freely suspended magnet will rest.

---

15. What is the use of grills in a mushroom?

---

16. Give one way in which P7 pupils can promote immunization in their families.

---

17. Apart from pregnant mothers, young and disabled people, give any one other group of people who need special care in a family.

---

18. In which way is a fuse similar to a switch in a simple electric circuit?

---

19. Why should a nurse shake the clinical thermometer before it is used on another patient?

---

20. State one way in which a farmer can control crop diseases without using chemicals.

---

21. Name the turning point of machine.
- 
22. Why ventilators are usually put on a higher level than doors and windows in a house?
- 
23. How do conifers differ from other non-flowering plants?
- 
24. What is the importance of chimney in kitchen?
- 
25. Apart from getting food, give any one other way in which birds benefit from plants.
- 
26. What type of skeleton does a cockroach have?
- 
27. What is the importance of water during seed germination?
- 
28. How does a human body cool itself on a hot day?
- 
29. How is the fertilization of the eggs of amphibians different from those of reptiles?
- 
30. How can the pitch of a string of a musical instrument be changed?
- 
31. Mary shouted in a big house and she heard the same sound repeated. Name the repeated sound she heard.
- 
32. Give one disadvantage of using herbicides (chemicals) to kill weeds in crop gardens.
- 
33. State an example of a crop which is legume.
- 
34. Give any one way in which the human liver can be kept in proper working condition.
-

35. State any one way in which termites depend on soil.

---

36. A man lives with his wife, two sons and a nephew. What type of family is this?

---

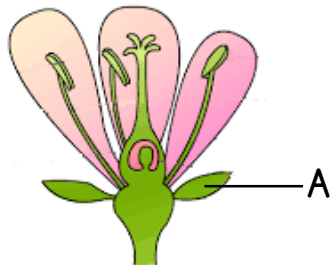
37. Name any one by-product of respiration.

---

38. State the type of change that takes place when a baby grows to an adult.

---

The diagram below is a section of a flower. Use it to answer questions 39 and 40.



39. Name the part marked A.

---

40. Use letter P to show the part that produces the male reproductive cells.

### **SECTION B: 60 MARKS**

41. a. Give one way in which Primary Health Care (PHC) is important to a community.

---

b. State the element of Primary Health care which is promoted by each of the following activities:

– Sweeping the kitchen

---

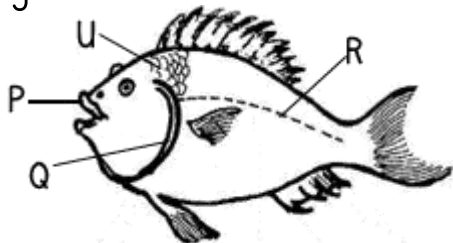
– Putting drops of polio vaccine into the mouth of a child

---

– Eating a balanced diet

---

42. The diagram below is of a fish. Use it to answer questions that follow.



a. Name the part labeled R.

\_\_\_\_\_

b. Give the function of the parts labeled P and U.

P

\_\_\_\_\_

U

\_\_\_\_\_

c. What structure is covered by the part labeled Q?

\_\_\_\_\_

43. a. State two differences between birds and mammals.

i.

\_\_\_\_\_

ii.

\_\_\_\_\_

b. Give two similarities between birds and mammals.

i.

\_\_\_\_\_

ii.

\_\_\_\_\_

44. The diagram below shows a germinating seed. Use it to answer questions that follow.



a. State the type of germination shown above.

\_\_\_\_\_

b. Where does the seed above store the food used during germination?

\_\_\_\_\_

c. Give an example of a crop with the same type of germination.

\_\_\_\_\_

d. Apart from moisture, state any one other condition necessary for seed germination.

\_\_\_\_\_

45. a. State any two natural causes of environmental degradation.

i.

\_\_\_\_\_

ii.

\_\_\_\_\_

b. Give two human causes of environmental degradation.

i. \_\_\_\_\_

ii. \_\_\_\_\_

46. a. Which part of the body is affected by each of the following diseases?

– Scabies \_\_\_\_\_

– Trachoma \_\_\_\_\_

b. State the vector which spreads each of the following diseases:

– Bilhazaria \_\_\_\_\_

– Rabies \_\_\_\_\_

47. a. Mention two primary sex changes that happen in boys.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Give two secondary sex changes that happen in both boys and girls.

i. \_\_\_\_\_

ii. \_\_\_\_\_

48. a. Apart from millet, wheat and sorghum, give any one other cereal food crops.

\_\_\_\_\_

b. Mention any one common pest that destroys cereal crops.

\_\_\_\_\_

c. Give any two reasons why cereal crops are dried before storing.

i. \_\_\_\_\_

ii. \_\_\_\_\_

49. a. Apart from a worker bee, mention two other types of bees found in a bee hive.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Write down two materials collected by a worker bee from the environment.

i. \_\_\_\_\_

ii. \_\_\_\_\_

50. a. What form of energy does a ball have before it is kicked?

\_\_\_\_\_



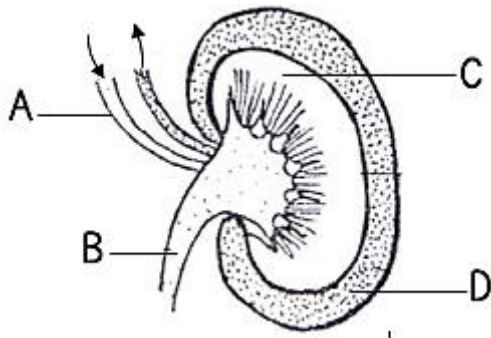
b. What energy change takes place immediately a ball is kicked?

c. Give two forms of energy produced by the ball as the goal keeper catches it.

i. \_\_\_\_\_

ii. \_\_\_\_\_

51. The diagram below is a section of a human kidney. Use it to answer questions that follow.



a. Name the parts marked with letters B and C.

B \_\_\_\_\_

C \_\_\_\_\_

b. What happens to blood in the part marked with letter D?

\_\_\_\_\_

c. How is part A important to the kidneys?

\_\_\_\_\_

52. a. Give any two reasons why it is important to wash hands before eating food.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Apart from washing hands, mention any two other activities one can do to maintain personal hygiene.

i. \_\_\_\_\_

ii. \_\_\_\_\_

53. a. Name two natural resources in the environment that enable green plants to make their food.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. What is the name of the process in (a) above?

\_\_\_\_\_

c. Which gas is given off during this process?

\_\_\_\_\_

54. a. Name any two products got from sheep.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. What does shearing refer to in sheep rearing?

\_\_\_\_\_

c. How can a farmer control pneumonia in sheep?

\_\_\_\_\_

55. a. What force makes a pencil to reduce in length as one writes?

\_\_\_\_\_

b. Name any one form of energy produced by the force in (a) above as one writes.

\_\_\_\_\_

c. Give any two disadvantages of the force you have named above to the writer.

i. \_\_\_\_\_

ii. \_\_\_\_\_

# SCIENCE PLE 2010

## CANDIDATE'S INFORMATION

Index number :

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Name :

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Signature :

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School name :

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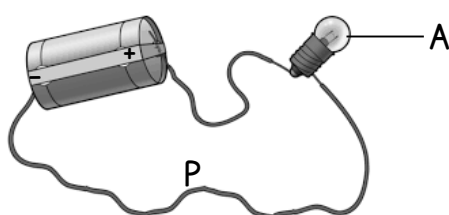
District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Name the sense of organ for hearing.  
\_\_\_\_\_
2. Give one item used for cleaning hands after visiting a latrine or toilet.  
\_\_\_\_\_
3. State one way in which rain may be a disadvantage to a crop farmer  
\_\_\_\_\_

The diagram below is of simple circuit. Use it to answer question 4 and 5.



4. Draw an arrow on line P to show the direction of the flow of electricity.  
\_\_\_\_\_
5. Apart from light, which other form of energy is produced at A?  
\_\_\_\_\_
6. What is the importance of dipping cattle?  
\_\_\_\_\_
7. Write down one bad behavior which is a result of drug abuse.  
\_\_\_\_\_

8. Name one type of seed dispersal.

---

9. Sunbirds visit flowers to get nectar. How do plants benefit from these birds?

---

10. Give one way in which the cause of a scald is similar to that of a burn.

---

11. Name the best soil for making pots.

---

12. Write down one block in a food path.

---

13. Give one way in which health education is important in controlling overpopulation.

---

14. How can farmer make use of cow dung produced by his animals?

---

15. State one way in which hens are important in prevention of deficiency diseases in man.

---

16. Arrange the following organism in the correct order of a food chain.

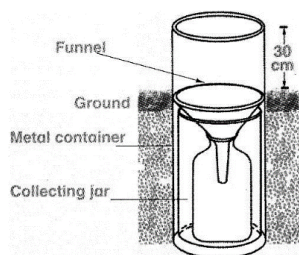
---

Caterpillar → Dog → Leaves → Bird

17. Why is a person with hookworms likely to suffer from anemia?

---

18. The diagram below is of weather instrument. Study it and answer question 18.



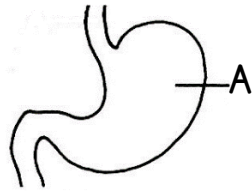
What is the use of the instrument in a weather station?

---

19. Give a reason for keeping *Ebola* victims away from other people.

---

The diagram below shows part of the human digestive system. Use it to answer question 20.



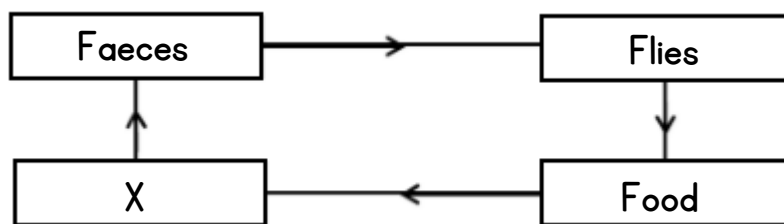
20. Name the class of food which is digested in the part marked A.
- 
21. Write down one way in help in the control of cholera in a community.
- 
22. Give one way in which the preservation of millet and fish differs.
- 
- 
23. State one way of controlling nagana in an area.
- 
24. Give one example of a plant with prop roots.
- 
25. Name the type of family where there are parents and their biological children only.
- 
26. Write down one function of joints in human body.
- 
27. You are a health prefect in your school. Give one activity you would do during a health parade.
- 
28. How is wind useful to human beings?
- 
29. Why is mercury used in a thermometer instead of water?
- 
30. State one natural source of sound energy.
- 
31. Write down the function of testes in a human reproductive system.
-

32. Give the difference between river blindness and night blindness.
- 
- 
33. How is thermos flask helpful in a home?
- 
34. Apart from absorption of water and mineral salts, state one other use of roots to a cassava plant.
- 
35. State one effect of heat on a metal.
- 
36. How does mulching help to keep moisture in the soil?
- 
37. What determine the size of the image in a pinhole camera?
- 
38. Give one way in which energy from animals can be used.
- 
39. Write down First Aid you would give to a person who has been bitten by a poisonous snake on the lower part of the leg.
- 
40. Why does a coin sink when it is placed in a basin full of water?
- 

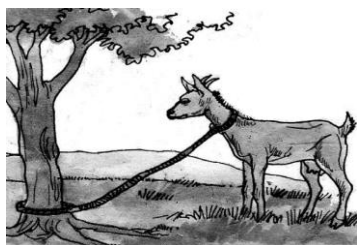
### **SECTION B: 60 MARKS**

41. a. Name one natural and artificial source of light.
- i. natural \_\_\_\_\_
- ii. artificial \_\_\_\_\_
- b. Why is the moon not regarded as source of light?
- 
- c. Give one way in which reflection of light is important to man.
-

42. The diagram below shows how diseases can spread through the 4Fs. Use it to answer question 42.



- a. Give the word which should be in the box marked X.
- \_\_\_\_\_
- b. Name two activities which can be done to avoid the spread of diseases through food.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- c. What structure on the body of a fly makes it spread diseases?
- \_\_\_\_\_
43. The diagram below shows one of the methods of grazing goats in Uganda. Study it and use it to answer question 43.



- a. Name the method of grazing goats shown in the diagram.
- \_\_\_\_\_
- b. Give two advantages of using the method shown in the diagram.
- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- c. Write down one disadvantage of using this method.
- \_\_\_\_\_

44. Match the item in list A with their functions in list B.

List A	List B
Red blood cells	stop bleeding when the skins is cut.
Arteries	carry oxygen around the body .
Valves	carry blood away from the heart.
Platelets	prevent back flow of blood in veins.

- a. Red blood cells \_\_\_\_\_
- b. Arteries \_\_\_\_\_
- c. Valves \_\_\_\_\_
- d. Platelets \_\_\_\_\_

45. a. Give two benefits of planting trees in your school compound.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

b. What two things can you do to protect in your school compound?

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

46. a. Name the type of cattle kept for milk production.

b. Give one example of exotic breeds of cattle which are the best for milk production.

c. Write down two activities a farmer should do in order to get clean milk from a cow.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

47. a. State one Primary Health Care activity children can do to help their mothers when cooking.

b. Write down three health care activities that can be provided to the elderly in our homes.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- iii. \_\_\_\_\_

48. a. Name two scavengers in the environment.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

b. In which way are scavengers useful in the environment?

c. Give the difference between a predator and scavenger.



49. a. Which organ removes urine from the body?

b. To which body system does the organ that removes urine from the body belong?

c. Where does urine collect before it is removed from the body?

d. Name one substance found in urine.

50. a. Name two water resources in Uganda that provide us with proteins.

i. \_\_\_\_\_

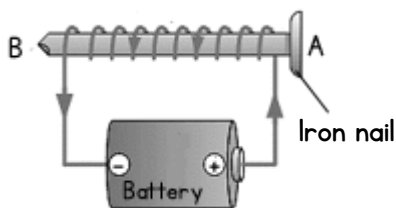
ii. \_\_\_\_\_

b. Give two water human practices that can lead to the destruction of such resources.

i. \_\_\_\_\_

ii. \_\_\_\_\_

51. The diagram below shows a method of making a magnet. Study it and use it to answer question 51.



a. Name the method of making a magnet shown in the diagram.

b. What pole will the part marked A become?

c. What would you do to the dry cells in order to increase the strength of the magnet?

d. Apart from the method shown in the diagram, name any other method of making a magnet.

52. a. Name the germ that causes HIV/AIDS.

b. Apart from having sex an infected person, write down two other ways in which one can get the germ that causes HIV/AIDS rural areas.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. ABC is a way of controlling the spread of the germ that causes HI/AIDS. What does A stand for?

\_\_\_\_\_

53. a. Apart from killing people, give two other dangers of lightening.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Write down two ways by which people can protect themselves from the dangers of lightening.

i. \_\_\_\_\_

ii. \_\_\_\_\_

54. In an experiment, salt is mixed with water and stirred until it dissolves to make a solution.

a. What do the following act as in the experiment?

- Salt \_\_\_\_\_

- Water \_\_\_\_\_

b. Name any other substance that could be used instead of salt.

\_\_\_\_\_

c. How can salt be recovered from the solution?

\_\_\_\_\_

55. a. Why are vaccines used in the prevention of certain diseases?

\_\_\_\_\_

b. How is the measles vaccine given to a baby?

\_\_\_\_\_

c. Apart from immunization, state two other ways in which a baby's immunity can be improved.

i. \_\_\_\_\_

ii. \_\_\_\_\_

# SCIENCE PLE 2009

## CANDIDATE'S INFORMATION

Index number :

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Name :

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School name :

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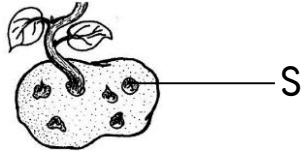
District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Name of domestic animal used for protection in a home.  
\_\_\_\_\_
2. Give the function of a micropyle to germinating seed.  
\_\_\_\_\_
3. What general name is given to animals with a backbone?  
\_\_\_\_\_
4. Name the type of preservation where slow burning fire is used to dry food.  
\_\_\_\_\_
5. Give one pest which destroys the roots of root crops in gardens.  
\_\_\_\_\_
6. What state of matter is smoke?  
\_\_\_\_\_
7. Give a reason why a tsetse fly is dangerous to cattle.  
\_\_\_\_\_
8. How is reproduction in beans different from that in ferns?  
\_\_\_\_\_
9. Write one activity that can help to reduce snake bites in homes  
\_\_\_\_\_

10. The diagram below is of an Irish potato tuber. Use it to answer the question that follows.



What is the use of the part marked S?

---

11. Why is immunization of children carried out free of charge in Uganda?
- 
12. Write one reason why people working in dirty areas should wear gumboots.
- 

13. Why should young girls avoid getting pregnant?
- 

14. What type of farmer use in order to harvest both crops and woods?
- 

15. The diagram below shows a method of making water clean. Use it to answer question that follows:



Name the method used above.

---

16. Why do objects thrown in the air fall back on the ground?
- 

17. Why should communities fence open spring wells?
- 

18. State one way of preventing athlete's foot disease.
- 

19. Why is an ostrich unable to fly?
- 

20. Apart from trachoma, name one other eye disease.
-

21. State one way holes in the soil created during brick-making may contribute to the spread of malaria in an area.
- 
22. State one natural cause of a family failing to have enough food.
- 
23. Name one material used to guard against electric shocks.
- 
24. Give one activity the community can do to reduce road accidents.
- 
25. Name one activity carried out by farmers to remove unwanted plants from their gardens.
- 
26. Give one way in which claws are important to birds.
- 
27. To which group of simple machines does a ladder leaning against a wall belong?
- 
28. Why is it a bad practice to store cooked food in a room where domestic animals are kept?
- 
29. Write one method of rearing cattle used in towns.
- 
30. State one similarity in structure between a snails and an earthworm.
- 
31. A part from rock particles and living organisms, name one other part of soil.
- 
32. What happens when an opaque object is placed in a path of light?
- 
33. Name the kind of energy possessed by water at 100°C.
- 
34. Give one factor to be considered when choosing a site for a school garden.
-

35. The diagram below shows a stage of development of an animal. Use it to answer the question that follows.



Name one animal that develops from this stage.

36. State one common problem which adolescents face.

37. Why is breast feeding very important to a mother?

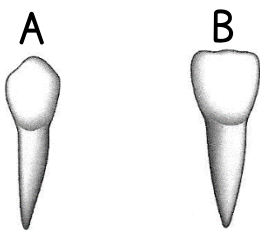
38. How do plants reduce the amount of carbon dioxide in the atmosphere?

39. Name the part of a flower that holds the anther ahead.

40. Give one reason why people who get badly burnt are given plenty of fluids.

### **SECTION B: 60 MARKS**

41. The following diagram shows two types of teeth in human beings. Use it to answer questions that follow.



- a. Name the type of tooth marked A and B.

A \_\_\_\_\_

B \_\_\_\_\_

- b. Give the use of each of the teeth in the diagram above.

A \_\_\_\_\_

B \_\_\_\_\_

42. a. How does a guitar produce sound when its string is plucked?

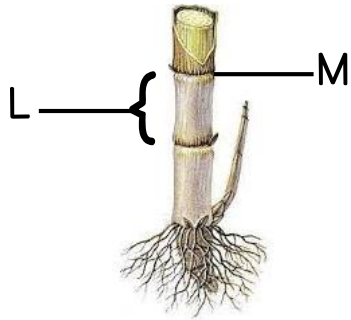
- b. How can the pitch of a guitar be changed?

- c. Name one way of storing sound

d. Give reason why sound cannot travel through a vacuum.

---

43. The diagram below is of a sugarcane plant. Use it to answer the question that follows.



a. Name the parts of marked with letters M and L.

M \_\_\_\_\_

L \_\_\_\_\_

b. What food value is got from eating sugarcanes?

---

c. How is such a sugarcane plant propagated?

---

44. a. State one way in which nursery bed is important to a farmer.

---

b. Name two vegetable crops commonly grown in a nursery bed.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. Give one way in which farmer can care for crops in a nursery bed.

---

45. a. Write one dangerous substance found in tobacco smoke.

---

b. Give the meaning of each of the following:

– Active smoking

---

– Passive smoking

---

c. What piece of advice can you give to smokers to help them to stop the habit?

---

46. The density of sand is 3 grams per cubic centimeter. Its mass is 270 grams. Find its volume.

47. a. What is First Aid?

---

---

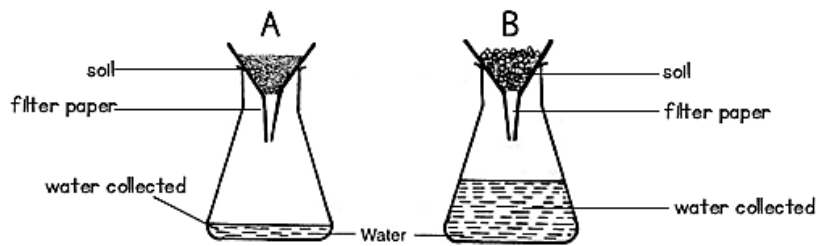
b. List any two things found in First aid box.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

c. State why every school should have a First Aid box.

---

48. Equal amounts of water were produced onto soil A and B shown in the diagram below:



a. From which soil did more water drop?

---

b. State why more water dropped from soil you have named in (a) above.

---

c. Name the type of soil in B.

---

d. Give one use of the type of soil in A.

---

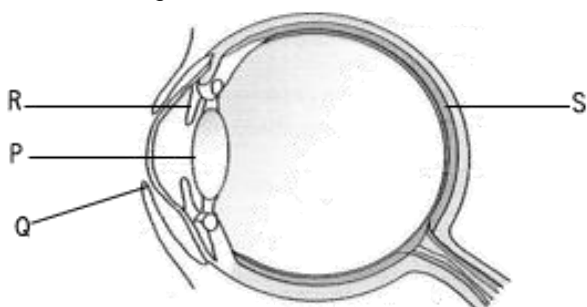
49. a. Write two activities that help to promote good sanitation in a home.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

b. Name two diseases that may attack a family due to poor sanitation.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

50. The diagram below shows a human eye. Use it to answer the question that follows.



a. Name the parts marked P and Q.

P \_\_\_\_\_

Q \_\_\_\_\_



b. What is the function of part marked R?

---

c. Which letter on the diagram shows where images are formed?

---

51. The table below shows weather instruments, and what they measure. Match the items in list A with those in list B.

List A	List B
Wind vane	amount of rainfall.
Barometer	speed of wind.
Rain gauge	amount of air pressure.
Anemometer	direction of wind.

- a. Wind vane \_\_\_\_\_
- b. Barometer \_\_\_\_\_
- c. Rain gauge \_\_\_\_\_
- d. Anemometer \_\_\_\_\_

52. a. What name is given to the process that turns sugar to alcohol?

---

b. Apart from making alcohol, state two other ways the process you have named in (a) can be useful to human beings.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. Name the fungus used in this process.

---

53. a. Name the process that takes place in the air sacs of a human lung.

---

b. What prevents the trachea (wind pipe) from closing during breathing?

---

c. Give two products found in the air we breathe out.

i. \_\_\_\_\_

ii. \_\_\_\_\_

54. a. State the function of each of the following structures in the human skeleton.

- Ligament \_\_\_\_\_

- Tendon \_\_\_\_\_

b. Give one example of a long bone in a human skeleton.

\_\_\_\_\_

c. Name one disease that affects a human skeleton.

\_\_\_\_\_

55. a. Name the germ that causes gonorrhea.

\_\_\_\_\_

b. Give one sign of gonorrhea infection in a newly born baby.

\_\_\_\_\_

c. How does gonorrhea infection increase chances of a person getting HIV/AIDS?

\_\_\_\_\_

d. How can a person avoid getting gonorrhea?

\_\_\_\_\_

# SCIENCE PLE 2008

## CANDIDATE'S INFORMATION

Index number :

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Name :

\_\_\_\_\_

Signature :

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School name :

\_\_\_\_\_

District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. Name one body organ in man that makes use of light energy from the sun.  
\_\_\_\_\_
  2. Name one cold-blooded vertebrate that has a body shell.  
\_\_\_\_\_
  3. Mention any one way in which a biological change is similar to a chemical change.  
\_\_\_\_\_
  4. How can a passion fruit plant benefit from growing near a mango tree?  
\_\_\_\_\_
  5. Write down the vector that spreads elephantiasis.  
\_\_\_\_\_
  6. To which group of animals does the one shown in the diagram below belong?  
\_\_\_\_\_
- 
7. Give any one use of wearing sun grass.  
\_\_\_\_\_
  8. Why is a maize grain grouped under monocotyledonous seeds?  
\_\_\_\_\_
  9. What is the importance of a web to a spider?  
\_\_\_\_\_

10. How does fish help in controlling the spread of malaria?
- 
11. Mention any one way in which communicable diseases are spread.
- 
12. Whenever peter opens or closes his door, the hinge makes noise. What can he do to stop the noise when he is opening?
- 
13. Name one structure in a human body which connects bone to bone.
- 
14. Give any one way in which petrol in a car is similar to food in a human body.
- 
15. How are ferns, mosses and liverworts similar?
- 
16. State any one health reason why the building of industries should be limited in an area?
- 
17. Why should you chew food before swallowing it?
- 
18. How is a chameleon important to human beings?
- 
19. Suggest any one use of a tourniquet.
- 
20. State any one way in which soil is important to insects.
- 
21. What system is responsible for the removal of waste materials from our bodies?
- 
22. State one result of two naked wires carrying electric current getting in touch with one another.
- 
23. Give the function of the epiglottis in the respiratory system.
-

24. Write down the type of venation shown by the diagram below.



25. State the organisms that can be controlled by use of antibodies.

26. Write down any one piece of advice you can give to a friend in order to promote the person hygiene.

27. Why is a microscope important to doctors?

28. How does boiling of water help the control of typhoid?

29. State the function of the amniotic fluid during pregnancy.

30. Which type of electricity is produced by generators?

31. Give any one cause of malnutrition in adults.

32. How is TASO (The Aids Support Organization) useful to HIV/AIDS victims?

33. What process makes dew to disappear during hot day?

34. Give any one use of reptile to man.

35. How are green plants important in the water cycle?

36. Mention any one natural resource found under the ground and is used as fuel.

37. Apart from getting medical treatment, write any other piece of advice you can give to a friend suffering from flu.

38. Name the state of matter in which sound travels fastest.
- 
39. Why is it easier for Otim to push a wheel barrow full of manure downhill than uphill?
- 
40. State an immisable disease which enters our bodies through cuts and wounds.
- 

### **SECTION B: 60 MARKS**

41. Use the diagram below to answer questions that follow.



- a. What name is given to the above equipment?

---

- b. Why is the above equipment always painted with bright colors?

---

- c. Why is such an equipment recommended to be in schools?

---

- d. What gas is contained in the above equipment?

---

42. a. A part from the skin, give any one example of a respiratory organ.

- b. List any two diseases which affect the respiratory organ in humans.

i. \_\_\_\_\_

ii. \_\_\_\_\_

- c. Give any one practice by humans which may lead to a respiratory disease.

---

43. a. Suggest two reasons why young farmers' clubs are important in schools.

i. \_\_\_\_\_

ii. \_\_\_\_\_

- b. Give any two activities that can be done by young farmers' clubs in schools.

i. \_\_\_\_\_

ii. \_\_\_\_\_

44. a. Name any two of the 5RS in waste management.

i. \_\_\_\_\_

ii. \_\_\_\_\_

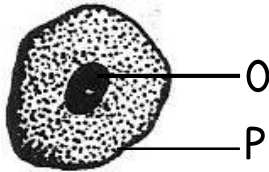
b. Suggest any two effects of poor waste management in the environment.

i. \_\_\_\_\_

ii. \_\_\_\_\_

45. The diagram below is of an amoeba. Use it to answer questions that follow.

a. What kind of organism is an amoeba?



b. Name the structure indicated by letters.

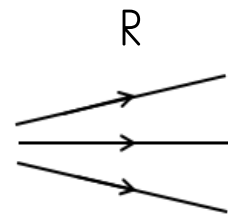
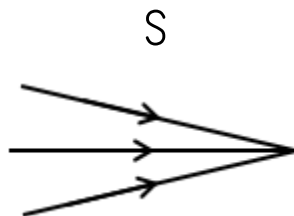
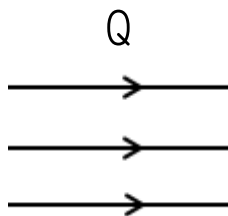
O \_\_\_\_\_

P \_\_\_\_\_

c. How is the amoeba able to move from place to place?

\_\_\_\_\_

46. The illustrations below show different types of light rays. Use them to answer questions that follow.



a. Name the following rays of light.

Q \_\_\_\_\_

S \_\_\_\_\_

b. Suggest the type of lens that can be used to make light rays move as shown in S above.

\_\_\_\_\_

c. What eye defect is corrected by a lens which makes rays move as shown in R?

\_\_\_\_\_

47. A poultry farmer has his chicken passing out blood stained droppings and have drooping wings.

a. What disease is likely to have attacked the farmer's birds?

\_\_\_\_\_

b. Suggest two ways in which the neighbors to the farmer can prevent their birds from contracting the above disease.

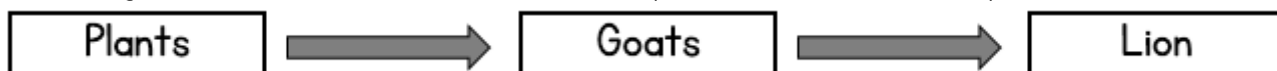
i. \_\_\_\_\_

ii. \_\_\_\_\_

c. Why should the farmer separate the birds with the above given conditions from the rest?

\_\_\_\_\_

48. The diagram below is of a food chain. Study it and answer the questions that follow.



a. Name the producer.

\_\_\_\_\_

b. Which living organism in the diagram is herbivorous?

\_\_\_\_\_

c. Why is the organism in (b) above herbivorous?

\_\_\_\_\_

d. Name one way in which plants benefit from the goats.

\_\_\_\_\_

49. The diagram below is of a pulley system. Use it to answer questions that follow.



a. Name the type of pulley system shown above.

\_\_\_\_\_

b. Use an arrow to show the direction of effort.

c. If the mechanical advantage of the machine is 2 and the load being carried by the machine 50 kg, find the effort needed to raise that load.

50. a. Give two reasons for placing utensils on a rack.

i. \_\_\_\_\_

ii. \_\_\_\_\_



b. Why should a rack be constructed with stands at least one meter above the ground?

c. Suggest one danger of leaving utensils for a long time outside on a rack.

51. a. Mention any one method of harvesting root crops.

b. Give any three ways in which weeding helps on the proper growth of root crops.

i. \_\_\_\_\_

ii. \_\_\_\_\_

iii. \_\_\_\_\_

52. a. What name is given to the liquid part of blood?

b. Name one component of the liquid part of blood.

d. Give any two uses of the liquid part of blood.

i. \_\_\_\_\_

ii. \_\_\_\_\_

53. Give the meaning of the following words as used in cattle-rearing.

a. Insemination:

\_\_\_\_\_  
\_\_\_\_\_

b. Cross-breeding:

\_\_\_\_\_  
\_\_\_\_\_

c. Castration:

\_\_\_\_\_  
\_\_\_\_\_

d. On heat:

\_\_\_\_\_  
\_\_\_\_\_

54. a. What is the meant by the term silting?

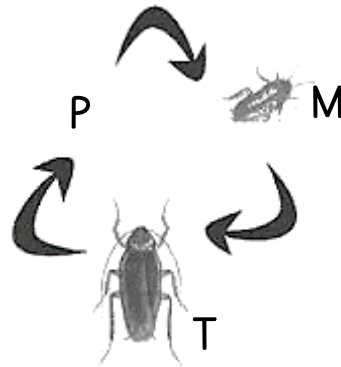
b. Apart from killing fish, how else does silting affect fish?

c. List any two major causes of silting.

i. \_\_\_\_\_

ii. \_\_\_\_\_

55. The diagram below shows a life cycle of an insect. Use it to answer the questions that follow.



a. Name stages marked M and T.

M \_\_\_\_\_

T \_\_\_\_\_

b. Name one insect that undergoes the above stages of development.

\_\_\_\_\_

c. Draw the stage marked with letter P.

# SCIENCE PLE 2007

## CANDIDATE'S INFORMATION

Index number :

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Name :

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Signature :

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School name :

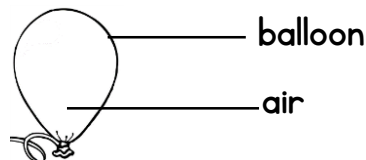
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District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

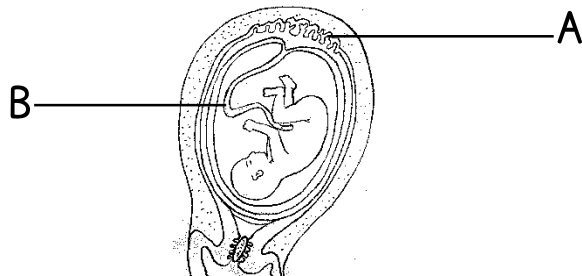
1. Which reptile changes the color of its body it moves from one place to another?  
\_\_\_\_\_
2. Give any one way in which bush burning leads to soil erosion.  
\_\_\_\_\_
3. How are bats different from hens in their way of reproduction?  
\_\_\_\_\_
4. How does immunization promote health in a child?  
\_\_\_\_\_
5. Give any one property of air shown in the diagram below.  
\_\_\_\_\_



6. Give the difference between evaporation and condensation.  
\_\_\_\_\_  
\_\_\_\_\_
7. Why is an earth-worm called an invertebrate?  
\_\_\_\_\_
8. Give any one function of a human skeleton.  
\_\_\_\_\_

9. Give any one way in which the spread of scabies can be controlled.
- 
10. Mention a disease which makes a person to pass out watery stool with blood.
- 
11. State the difference between volume and mass.
- 
- 
12. Give any one body characteristic which is common to a spider and a tick.
- 
13. Which is the main cause of fainting?
- 
14. Suggest any one way in which human beings use energy from the sun?
- 
15. Give any one way in which sweating is important in a human body.
- 

The diagram below shows a fetus in the womb. Use it to answer questions 16 and 17.



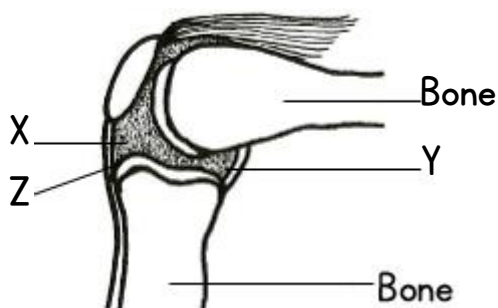
16. Name the part marked with letter A.
- 
17. Name any one way in which the part marked with letter B is useful to the fetus.
- 
18. Which part of the human eye works like a camera?
- 
19. Give any one activity that can be done at home to control the spread of malaria.
- 
20. In which way is a person who is HIV positive different from the one who has developed AIDS?
-

21. Give any one way in which a transparent object differs from an opaque object.
- 
22. What causes kwashiorkor in children?
- 
23. Why is photosynthesis important to plant?
- 
24. Give any one reason why human beings breathe in.
- 
25. What is an enzyme?
- 
26. Give any one reason why plants and animals are classified as living thing.
- 
27. State any one way in which health parades are important in primary schools.
- 
28. Apart from painting, give any one other way in which metals can be prevented from rusting.
- 
29. Which type of soil does not allow water to go through it easily?
- 
30. Why is a sling used when giving First Aid to a person with a broken hand?
- 
31. State any one practice on a school garden that will help to improve soil fertility.
- 
32. Why is a tick called a parasite?
- 
33. State the difference between the function of a pulmonary vein and that of a pulmonary artery in blood circulation.
- 
34. Give any one form of energy that is produced during the process of splitting firewood with an axe.
-

35. Give any one way in which plants benefit from animals.
- 
36. Give any one sign of a school compound which shows that the school environment is degraded.
- 
37. In which way the function of the kidneys similar to that of the skin in a human body?
- 
38. A part from the brain, give any one other body organ which is greatly damaged by alcoholism.
- 
39. How does heat from the sun reach the ground?
- 
40. Give any one way in which teeth are important in the digestion of food.
- 

### **SECTION B: 60 MARKS**

41. The diagram below shows a human joint. Use it to answer the questions that follow:



- a. Name the parts marked with letters Y and Z

Y \_\_\_\_\_

Z \_\_\_\_\_

- b. Give any one function of the fluid found in the place marked with letter X.

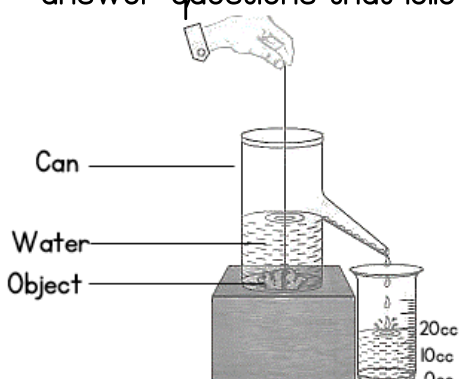
\_\_\_\_\_

\_\_\_\_\_

- c. What type of joint is shown in the diagram above?

\_\_\_\_\_

42. An experiment was done by P7 class as shown in the diagram below. Use it to answer questions that follow.



- a. When is such a method of finding volume used?

\_\_\_\_\_

- b. If the object above has a density of  $2 \text{ g/cm}^3$ , find its mass.

43. a. Give any two characteristics that are common to a frog and a crocodile apart from being vertebrates.

i. \_\_\_\_\_

ii. \_\_\_\_\_

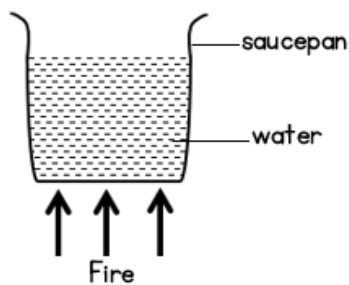
b. How is fertilization of a frog different from that of a crocodile?

\_\_\_\_\_

c. Name any one other vertebrate that can be classified with a frog.

\_\_\_\_\_

44. The diagram below shows a saucepan with some water on fire. Using it to answer the questions that follow:



a. How will heat from the fire move to reach the water at the bottom of the saucepan?

\_\_\_\_\_

b. Which method will enable the heat to reach all the water in the saucepan?

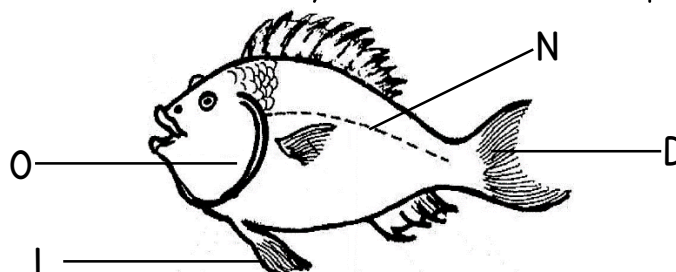
\_\_\_\_\_

c. Use arrows to show the movement of water in the saucepan after it has been heated for some time.

d. What will happen to the water in the saucepan to show that it is boiling?

\_\_\_\_\_

45. The diagram below is of a fish. Study it and answer the questions that follow:



a. Name the structure marked L.

\_\_\_\_\_

b. What is the function of each of the structure marked D and N?

D \_\_\_\_\_

N \_\_\_\_\_

c. State the function of the structure covered by the part marked O.

---

46. The diagram below shows a seedling in a box. Study it and answer the questions that follow.



a. What color will the leaves of the seedling be if left in this box with H covered for a week?

b. Give a reason for your answer in (a) above.

---

---

c. Give any two things are likely to happen to the seedling if the part marked with letter H is left open.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

47. a. Give any one reason why a magnet can not attract pieces of wood.

b. Give any three practices that can lead to the destruction of a magnet.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- iii. \_\_\_\_\_

48. Kamoga is a poultry farmer. He has 100 layers on his farm. Give any four reasons why he should keep farm records.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- iii. \_\_\_\_\_
- iv. \_\_\_\_\_

49. a. Why is it a bad practice to apply soil or cow dung on any burnt area of our skin?

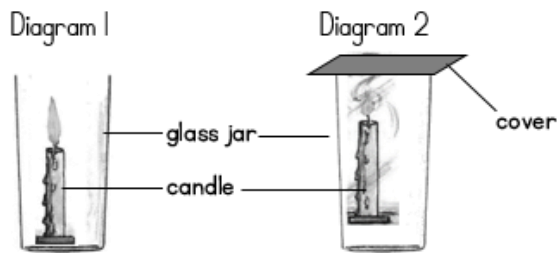
b. Suggest any two reasons why the injured part with a burn or scald is dipped into cold water.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_



c. Give any one way of avoiding burns while lifting hot objects.

50. The diagram numbered 1 and 2 below show an experiment done by a P.7 class. Diagram 1 show a burning candle in an open jar. In diagram 2, the jar was covered as shown. Use the diagram to answer the questions that follow:



a. What would happen to the flame in diagram 2 if the cover was removed after a short time?

b. Give a reason for your answer in question (a) above.

c. If the cover have been left on the jar in diagram 2 for a long time, what would have happened to the flame?

d. Give a reason for your answer in question (c) a.

51. a. What is environmental degradation?

b. Give any three natural causes of environmental degradation.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_
- iii. \_\_\_\_\_

52. a. Give any two ways in which mulching is important to the soil.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

b. Suggest any two materials that are commonly used for mulching gardens.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

53. a. State any one function of each of the following parts in a simple electric circuit:

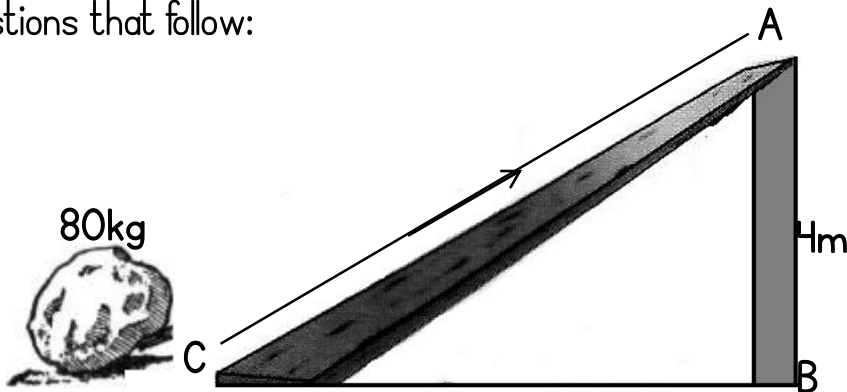
- Wire \_\_\_\_\_
- Battery \_\_\_\_\_

b. Mention any two causes of a short circuit.

i. \_\_\_\_\_

ii. \_\_\_\_\_

54. The diagram below shows a machine used for lifting loads. Use it to answer the questions that follow:



a. What distance is the load to be lifted?

\_\_\_\_\_

b. Give the advantage of lifting the load alongside CA.

\_\_\_\_\_

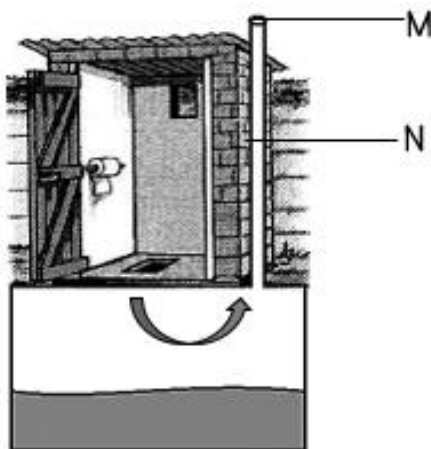
c. Find the mechanical advantage of the machine above.

\_\_\_\_\_

d. How can the machine be improved so that less effort is used to lift loads?

\_\_\_\_\_

55. The diagram below is of a Ventilated improved Pit (VIP) latrine. Use it to answer the questions that follow:



a. Name the part marked M and N.

M \_\_\_\_\_

N \_\_\_\_\_

b. Give the function of the part marked M.

\_\_\_\_\_

\_\_\_\_\_

c. What does the arrow in the diagram show?

\_\_\_\_\_

\_\_\_\_\_

# SCIENCE PLE 2006

## CANDIDATE'S INFORMATION

Index number :

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Name :

\_\_\_\_\_

Signature :

\_\_\_\_\_

School name :

\_\_\_\_\_

District name :

\_\_\_\_\_

## SECTION A: 40 MARKS

1. What good health habit should be practiced after visiting a latrine or toilet?  
\_\_\_\_\_
2. Give any one way in which animals are important during the process of photosynthesis.  
\_\_\_\_\_
3. What form of energy does falling stone have before it reaches the ground?  
\_\_\_\_\_
4. State any one reason why some plants climb others?  
\_\_\_\_\_
5. Give one common use of sand at home  
\_\_\_\_\_

The diagram below shows a glass of water with water and a pencil in it. Use it to answer question 6.



6. What causes the pencil to appear bent?  
\_\_\_\_\_  
\_\_\_\_\_
7. What first Aid would be given to Jamada who has burnt his hands with hot metal?  
\_\_\_\_\_

8. Give any one practice that can help to control the spread of cholera in a school.

---

9. Give any one reason why people plant trees around their houses.

---

10. A part from the skin and lungs, name any other excretory organ.

---

11. Give any one way in which the breathing of a housefly is different from that of a rat.

---

12. Give any one way in which soil is important to a plant.

---

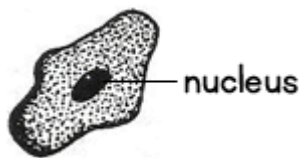
13. Why is a wet cloth put on the body of a person with fever?

---

The diagram below is of a blood cell. Use it to answer questions 14 and 15.

14. What type of blood cell is shown in the diagram?

---



15. Give a reason for your answer in question 14 above.

---

16. Give any one reason why plants are grouped among living things.

---

17. Give one example of a leguminous crop

---

18. How does a snail protect itself from its enemies?

---

19. Give any one disadvantage of keeping poultry on free range system.

---

20. Give any one reason why air is considered to be matter.

---

21. Give any one reason why people like the brick makers need to feed on more carbohydrates.

---

22. Which part of air is necessary for burning to take place?
23. Give the meaning of drug abuse.
24. State one way of making a magnet.
25. Which part of the human body does trachoma attack?
26. Suggest any one reason in which the use of solar energy helps in the protection of the environment.
27. Why is a ventilated improved Pit latrine (VIP) left without a cover?
28. How do some people become passive smokers?
29. Draw a prop root system in the space provided below.
30. Name any one crop with a root system similar to the one you have drawn above.
31. What causes an echo?
32. Why does a stone sink when it is put in a bucketful of water?
33. Give one way through which worms enter our bodies.
34. Mention the instrument used to measure the temperature of a human body.

35. What is the process by which seeds grow into seedlings?  
\_\_\_\_\_
36. State any one use of an axe in a home.  
\_\_\_\_\_
37. Give any one reason why white objects are seen easily even at a distance.  
\_\_\_\_\_
38. Give any one way in which people benefit from bees.  
\_\_\_\_\_
39. Which bone in the human skeleton protects the brain?  
\_\_\_\_\_
40. Give any one characteristic which is common in all the invertebrates.  
\_\_\_\_\_

### **SECTION B: 60 MARKS**

41. John fell off a bicycle and broke his high bone.

a. Name the injury which John got.  
\_\_\_\_\_

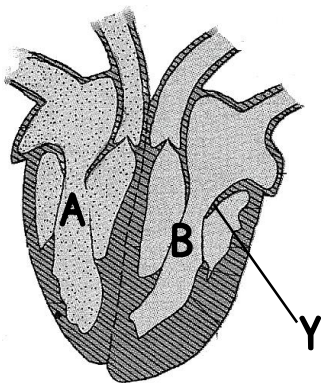
b. State two ways in which John can be given first aid.

i. \_\_\_\_\_

ii. \_\_\_\_\_

c. What is the importance of giving first Aid to a person like John?  
\_\_\_\_\_

42. The diagram below shows a human heart. Use it to answer the questions that follow:



a. What is the function of the part marked letter Y?  
\_\_\_\_\_

b. Give the difference between the blood in the regions marked with letters A and B.  
\_\_\_\_\_  
\_\_\_\_\_

c. Put arrows on the short lines marked with number 1 and 2 to show the direction of the movement of blood.

43. a. Name any two parts of a plant which provide human beings with food.

i. \_\_\_\_\_

ii. \_\_\_\_\_

b. Give any two ways in which plants benefit from animals.

i. \_\_\_\_\_

ii. \_\_\_\_\_

44. Below is a list of activities carried out by people in the environment. Use the list to answer the questions that follow.

- Fishing
- Producing a lot of smoke in the factories
- bush burning
- Draining swamps

a. Which activity is likely to decrease the amount of rainfall?

\_\_\_\_\_

b. Which activity is likely to spoil the fertility of the soil?

\_\_\_\_\_

c. Which activity is good for controlling crop diseases?

\_\_\_\_\_

d. Which activity is likely to cause pollution of the atmosphere?

\_\_\_\_\_

45. The table below shows different groups of vertebrates.

A	B	C
Birds	Mammals	Amphibians

a. To which group of vertebrates does each of the following belong?

- Bat \_\_\_\_\_

- Frog \_\_\_\_\_

b. Give any one way in which the reproduction of animals in group B is different from that of animals in group C.

\_\_\_\_\_

\_\_\_\_\_

c. Give any one other group of vertebrates which is missing in the table.

\_\_\_\_\_

46. a. What is the importance of taking children for immunization?

b. Which vaccine is given to the child in the mouth at birth?

c. Give any two ways in which the child's health is important to the parents.

i. \_\_\_\_\_

ii. \_\_\_\_\_

47. a. Give any two reasons why a mushroom is not a plant.

i. \_\_\_\_\_

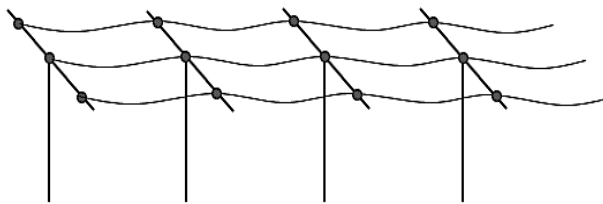
ii. \_\_\_\_\_

b. Give any two plants that produce in the same way like a mushroom.

i. \_\_\_\_\_

ii. \_\_\_\_\_

48. The diagram below shows wooden poles with electricity wires. Use it to answer the questions that follow:



a. State any one reason why the wires are loosely fixed.

b. What would happen to wires if they were tightly fixed?

c. Give one reason why wooden poles are usually used to carry electricity.

d. Why are wires placed very high up?

49. a. Give any one part of the human body where each of the following joints is found.

– Ball and socket joint \_\_\_\_\_

– Hinge joint \_\_\_\_\_

– Gliding joint \_\_\_\_\_



b. Which one of the above joints can make an all-round movement?

---

50. a. What is a chemical change?

---

---

b. Give any one example of a chemical change.

---

c. When water changes to ice, the process is called freezing. Name the process in each of the following changes.

– Ice to water \_\_\_\_\_

– Steam to water \_\_\_\_\_

51. a. Give any one reason why people include proteins in the diet.

---

b. What is the importance of fruits in a diet?

---

c. State any two ways of protecting children against malnutrition.

i. \_\_\_\_\_

ii. \_\_\_\_\_

52. The list below gives some of the methods farmers use to control soil erosion. Use it to answer questions that follow.

- |                     |                  |
|---------------------|------------------|
| – Terracing         | – planting trees |
| – Contour ploughing | – Mulching       |

Which of the two methods given above are best for?

Land with a gentle slope

i. \_\_\_\_\_

ii. \_\_\_\_\_

Land with a steep slope

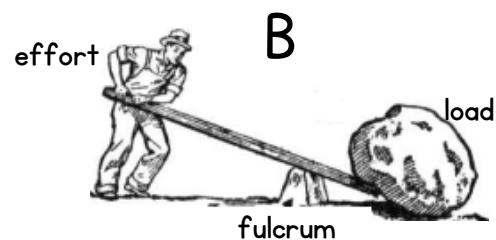
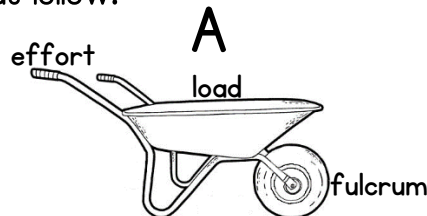
i. \_\_\_\_\_

ii. \_\_\_\_\_

53. Give any one sign you would see on cattle suffering from the following diseases.

- a. Anthrax \_\_\_\_\_
- b. East Coast fever \_\_\_\_\_
- c. Nagana \_\_\_\_\_
- d. Foot and mouth \_\_\_\_\_

54. The diagram below shows two simple machines. Use it to answer the questions that follow:



a. Name the machine marked with letter A

\_\_\_\_\_

b. State the class of levers to which each of the above machines belongs.

- Machine A \_\_\_\_\_
- Machine B \_\_\_\_\_

c. Give any one example of a machine which works in the same way as the machine marked with letter B.

\_\_\_\_\_

55. The diagram below shows a rabbit house. Use it to answer the question that follow:



a. Give any one reason why the rabbit house is raised above the ground.

\_\_\_\_\_  
\_\_\_\_\_

b. Give any two reasons why wire mesh is used in building a rabbit house.

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

c. State any one thing that should be provided to the rabbit in the house.

\_\_\_\_\_

## This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a guide for writing. There are no margins, text, or other markings on the paper.

[illegible]

