

SCIENCE PLE 2017

CANDIDATE'S INFORMATION

Index number :

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Name :

Signature :

School name :

District name :

SECTION A: 40 MARKS

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

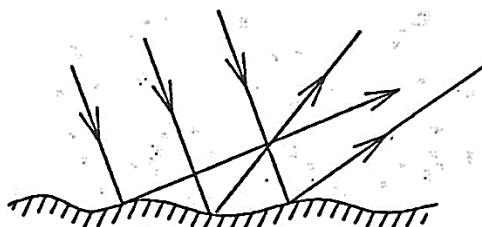
57. What type of electricity is lightning?

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?

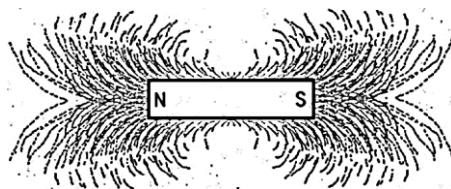
80. To which group of flowering plants does the germinating seed belong?

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

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.

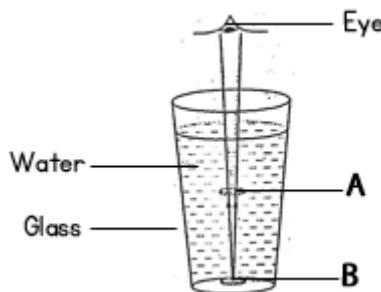
86. Name the organ which regulates the human body temperature.

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. _____

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

lion , goat , grass

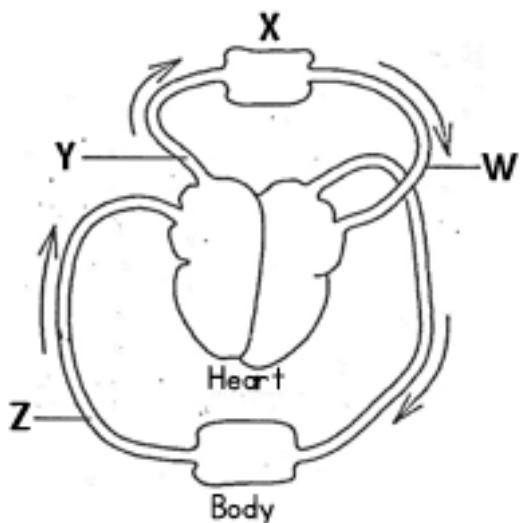


b. Which one of the living things in the food chain above is a producer?

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

43. 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?

44. 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;

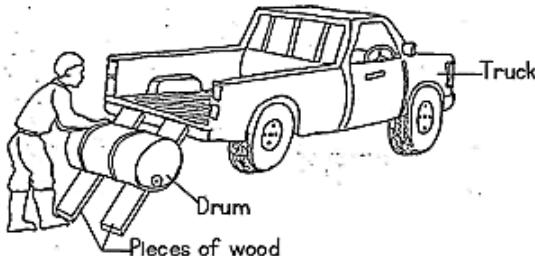
- An annual crop _____

- A perennial crop _____

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

47. 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?

50. 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.

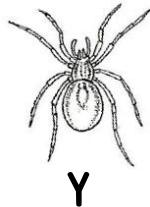
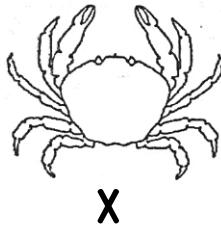
b. In which two ways is rainfall important to plant growth?

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.



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. _____

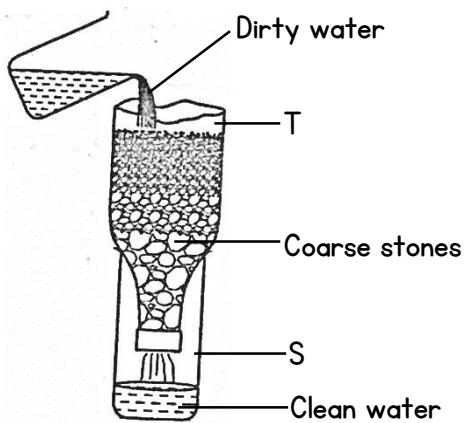
ii. _____

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?
