



ITEM 4
INTERGRATED SCIENCE
Time allowed: 2 Hours 15 minutes

SECTION A

QUESTIONS 1 – 40 CARRY ONE MARK EACH

56. Name one domestic animal used for transport.

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57. Give the function of the radical to a germinating seed.

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58. Name one traditional method of food preservation that does not use fire.

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59. What state of matter is porridge?

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60. Why is clean water and soap used for cleaning hands after visiting a latrine or toilet?

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61. How is the reproduction of man similar to that of a rat?

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62. Name one cold-blooded vertebrate that has body shell.

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63. Mention any one way in which human beings use energy from the sun.

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64. Give one activity at home that can control the spread of malaria.

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65. Apart from proteins, name one class of food which should be given to the vulnerable people in the community.

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66. Give one insect pest of maize.

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67. Why do people who harvest honey wear bee veils?

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68. What type of farming should a farmer use to get both crops and animal products?

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69. The diagram below is of a bulb, use it to answer the questions that follow:



Name the type of roots marked s.

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.....
70. How useful is part marked k?

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.....
71. Give a reason why distilled water is not recommended for drinking?

72. Name the device used to guard against damage to appliances by too much electric current.

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73. State any way in which a farmer can control crop diseases without using chemicals.

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74. Give one practice that can help to control the spread of cholera in a school.

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75. Which structure in the white blood cells help it to fight disease causing germs in the body?

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76. Why should a child suffering from kwashiorkor be given food rich in proteins?

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77. What is diffusion?

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78. Which type of soil allows water to go through it easily?

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79. Give any one reason why human beings breathe in.

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80. Apart from a zebra-crossing, give one spot where a school child can easily cross a busy road.

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81. To which group of machines is a road winding uphill?

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82. Besides rolling food, give any one function of the tongue in the process of digestion.

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83. State one similarity in structure of a snake and a tortoise.

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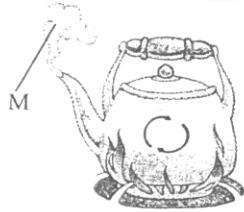
84. Mention any one way in which communicable diseases are spread.

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85. How is a web useful to a spider?

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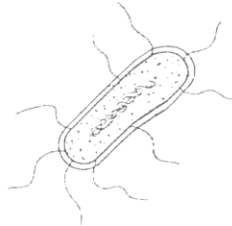
86. Study the diagram below and use it to answer question 31.



Name part labelled M.

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.....

87. Name the type of bacteria shown below.

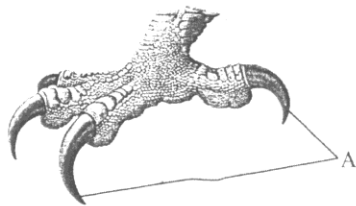


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88. State one natural source of sound energy.

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89. Study the foot of a bird below. Give the importance of the part marked A to the bird.

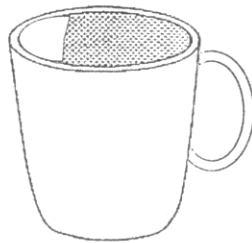


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90. Mention one natural cause of a family failing to have enough food.

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91. By what process does heat reach a person who is sitting one metre away from a burning charcoal stove?

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92. Study the instrument below carefully as used by dairy farmers. State the use of the instrument.



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93. Why do birds swallow small stones?

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.....
94. Write down one by-product of respiration.

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95. In the space below, draw a diagram of a germinating monocotyledonous plant.

SECTION B

96.

(a) Name the female reproduction cells in mammals.

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(b) What will be the result if the above-mentioned cell unites with a sperm cell?

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.....
(c) Which method of family planning can help one to control the spread of STD's?

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(d) Write down one disorder of the human reproductive system.

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97. Explain the following terms as related to accidents:

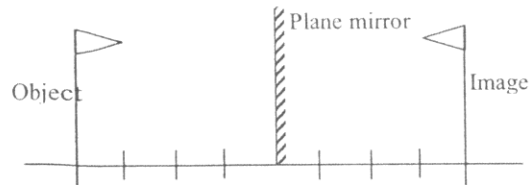
(a) Fracture :

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(b) A cut :

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.....
(c) Clutch :

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.....
(d) Dislocation

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.....
98. The diagram below shows behaviour of objects placed in front of plane mirrors.
Use it to answer questions that follow.



(a) Define a plane mirror.

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.....
(b) Write down two characteristics of image formed in a plane mirror.

i.
.....

ii.

(c) Give any one difference between images formed in a pin hole camera and a plane mirror.

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99. State the type of change which occurs in each below:

(a) Cloud formation.

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(b) Digestion of food in man.

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(c) Germination.

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(d) Rusting in metallic objects.

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100.

(a) What is brooding as used in poultry?

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(b) Name the special structure where young chicks are kept.

.....

(c) State two advantages of using the structure mentioned in (b) above.

i.

ii.

101.

(a) Identify any one external parasites in goats.

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(b) What is the gestation period of a goat?

.....

(c) State any one method of grazing goats.

.....

(d) Apart from getting milk, state any one importance of keeping goats in Uganda.

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102. The table below shows different groups of animals. Use it to answer the questions that follow.

A	B	C	D
FROG	SNAIL	RAT	SNAKE

(a) In which way are animals A, C and D similar?

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(b) How is the reproduction of the animal D different from that in C?

.....

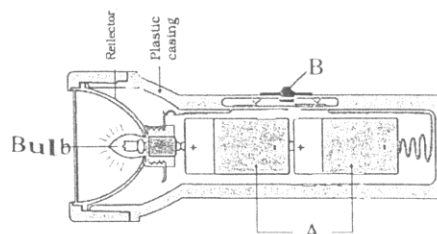
(c) To which class of animal does animal B belong?

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(d) How does animal A protect itself against its enemies?

.....

103. Use the diagram to answer questions that follow.

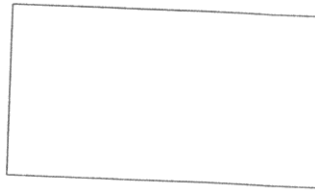


(a) Name the part labeled with letter B.

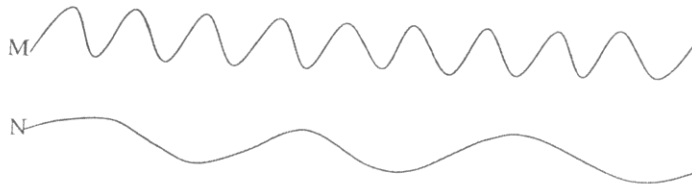
(b) Why is the bulb filament coiled?

(c) What energy change takes place in a bulb when the switch is working?

(d) Draw a symbol for a fuse in electricity.



104. The diagrams below represent sound waves M and N, use them to answer questions which follow.



(a) Compare the sounds produced by two waves M and N.

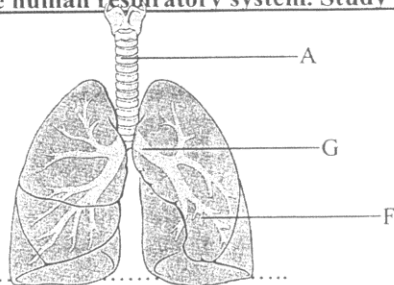
(b) Give any one way in which sound and light are similar.

(c) How are sound waves caused?

(d) State the unit of frequency.

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105. The diagram below is of the human respiratory system. Study it and use it to answer questions that follow.



(a) Name the parts labelled:

A
B.....

(b) What process takes place in the part labelled F?

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.....

(c) Identify one disease of the respiratory system.

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.....

106.

(a) Give the difference between volume and temperature.

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(b) Convert 30°C to the Fahrenheit scale.

(c) State one reason why mercury is used in thermometers.

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107.

(a) Which element of P.H.C is promoted by:

i. Proper feeding of children?

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ii. Slashing grass in our compound?

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iii. Ironing clothes after washing them?

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(b) Name any one cause of sickness in the home and community.

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108.

(a) Give one example of a bird that pollinates flowers.

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(b) Where does pollination take place in a flower?

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.....
(c) Besides “stamen”, what other term is used to identify the male part of a flower?

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(d) In which way can good scent of flowers be used to the plant?

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109. Man is one of the agents of environmental degradation.

(a) What is environmental degradation?

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(b) Identify any two human activities that have led to environmental degradation.

i.
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ii.
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(c) How has NEMA tackled environmental degradation in Uganda?

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110. Describe an experiment to show that dry soil contains air.

i.
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ii.
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iii.
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iv.
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END***