



ITEM 5
INTERGRATED SCIENCE
Time allowed: 2 Hours 15 minutes

SECTION A

QUESTIONS 1 – 40 CARRY ONE MARK EACH

111. Why does a bedbug produce a very bad smell when it is touched?

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112. Give any one way in which flowers are important to a plant.

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113. Which deficiency disease in children has these sign and symptoms: Retarded growth, lack of appetite and paralysis?

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114. Write one common characteristic which is in all insects?

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115. Why does sugar disappear when it is mixed in water?

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116. Which property of air is demonstrated when air is pumped into a ball and it becomes bigger?

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117. How is the absence of iodine harmful to our health?

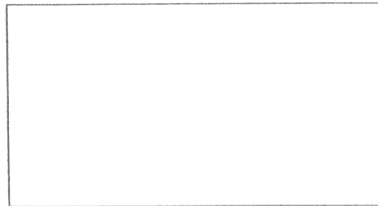
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118. What is the importance of platelets in the body?

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119. Give one reason why a farmer should keep records of daily weather?

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120. Why is proper disposal of refuse important in a home?

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121. Which of the following animals: fish, frog, lizard, rat and a snail is warm blooded?

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122. In the space provided below, draw a convex lense.



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123. Why do you think that seeds of an orange are likely to be dispersed by a person?

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124. When water is heated it changes into water vapour. What is this process called?

133. Give one sign of a starved child.

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134. Explain what ante-natal care is.

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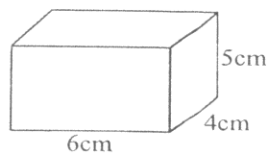
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135. Apart from roughages, bacteria and water, give any one component of the human faecal matter.

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136. The diagram below shows a chalk box. Find its volume.



Study the animals given in list K and those in M. use it to answer question 27.

K: FISH, BIRD, FROG

M: MAN, WHALE, BAT

137. How are animals in list K similar to those in list M?

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138. What is the source of energy in thermal electricity?

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139. In terms of machine, how is the hammer similar to the human arm?

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140. What should be done to a clinical thermometer before taking the temperature of a person?

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125. Name any one cereal which is used as food.

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126. Why is it possible to control the spread of cattle disease in a paddock system?

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127. Give any one reason why we should bathe with soap.

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128. Write down any one main part of a flowering plant.

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129. Give one reason why a farmer should practice plant training in a tomato garden.

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130. Vultures, kites and crows were found feeding on a dead cow. What group of birds are these?

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131. Give any one special characteristic of the air we breathe out?

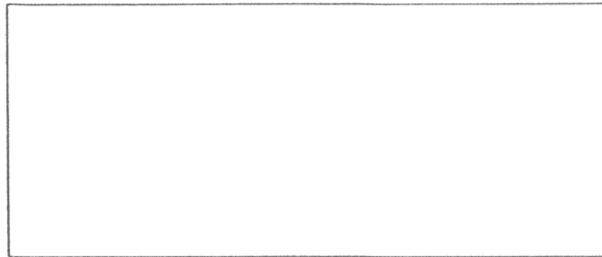
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132. What is the function of human skull in the human body?

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141. How does a vent help to reduce smell in a VIP latrine?

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142. What is one possible danger of buying drugs from local shops or markets?

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143. Why is budgeting in a family useful?

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144. In the space below, draw a diagram to show self-pollination in a flower.



145. Which body system is commonly affected by polio?

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146. State the first stage of soil formation from rocks.

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147. Apart from contour ploughing, strip cropping and mulching, give one other practice which is useful for soil conservation on a hilly ground.

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(a) Heart

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(b) Kidney

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(c) Skin

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(d) Lung

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(e) Brain

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155. (a) Name the type of force which reduces the efficiency of a machine.

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(b) State two advantages of the force named in question 45 (a) above.

i.

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ii.

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(c) How can you reduce the force you named in question 45 (a) above?

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156. (a) How can you tell by looking at the roots, that a plant is a legume?

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(b) Give any two examples of crops which are legumes.

- i. ii.

(c) How do legumes increase the fertility of the soil?

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157. (a) In which part of the plant does photosynthesis mainly take place?

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(b) Name two raw materials which enable photosynthesis to take place?

- i.
 ii.

(c) Give the difference between photosynthesis and transpiration.

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158. Use the list of food stuffs given below and answer the following questions:

BEANS, RICE, CABBAGE, MILK, ORANGES

(a) Give two food stuffs that are a source of proteins.

- i. ii.

(b) How are cabbages useful in one's diet?

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(c) Why would you regard a list of the foods given above a balanced diet?

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159. (a) what is a mixture of two or more metals?

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(b) Give one example of a common mixture of metals.

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(c) How does heat move from one point to another in a metal?

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(d) Apart from painting, give any other method of preventing a metallic object from rusting.

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160. (a) What are pollutants?

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(b) Write any two sanitary diseases that can be prevented by proper use of the latrine and toilets.

i. ii.
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(c) Why are the wetlands described as the kidney of the earth?

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161. State the role of the following in a food chain:

(a) Green plants

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(b) A goat

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(c) A pig

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(d) Bacteria

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162. (a) What is an electro-magnet?

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(b) Mention any two ways of making an electro-magnet stronger.

i.
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ii.
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(c) How is a generator different from an electric motor?

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163. State any 4 functions of blood in human body.

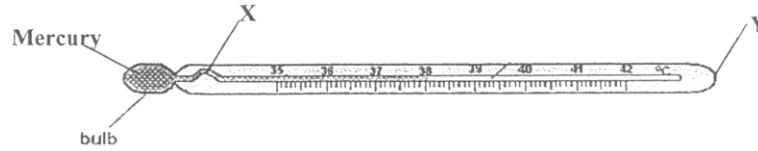
i.
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ii.
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iii.
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iv.

164. Below is a diagram of a clinical thermometer. Use it to answer questions that follow:



(a) Name the parts labeled Y and X.

Y X

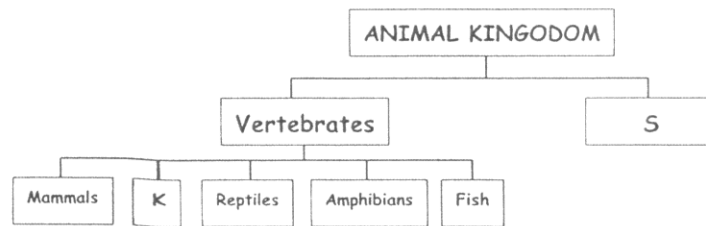
(b) Identify the importance of part marked X.

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(c) Apart from the armpits and tongue, mention any one part of the body where the clinical thermometer can be placed.

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165. The table below shows the classification of animals. Use it to answer questions that follow.



(a) Name the group of animals marked:

S K

(b) Give one example of animals in each of the following groups.

i. Molluscs

ii. Arachnids

END