

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

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

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

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

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



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

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

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



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

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

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

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

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

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

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

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

133. Give one sign of a starved child.

134. Explain what ante-natal care is.



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133. Give one sign of a starved child.

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134. Explain what ante-natal care is.

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



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

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

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

143. Why is budgeting in a family useful?

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



145. Which body system is commonly affected by polio?

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

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

148. What happens to the blood as it passes through the kidney?

Use the diagram of a leaf below to answer questions 39 and 40.



149. What is part marked B?

148. What happens to the blood as it passes through the kidney?

Use the diagram of a leaf below to answer questions 39 and 40.



149. What is part marked B?

150. Give one of the functions of part A.

SECTION B

151. (a) Which bone joins the pelvis and tibia?

(b) Explain briefly the following:

i. Voluntary muscles

ii. Involuntary muscles

(c) Give one use of muscles in the body.

152. (a) Name the bacteria that causes dysentery.

(b) How can we control dysentery without the use of drugs?

of dysentery in people.

their holes. Why do they come out?

.....
.....
(b) How can one control dysentery without the use of drugs?
.....
.....
.....

(c) Give any two signs of dysentery in people.

- i.
.....
ii.
.....

153. (a) After it has rained, earthworms come out of their holes. Why do they come out?
.....
.....
.....

(b) Give two reasons why an earthworm is very important to a farmer.

- i.
.....
ii.
.....

(c) Why does a worm die if oil is poured on its body?
.....
.....

154. Match items of group A with those of B by completing the table below:

<u>List A</u>	<u>List B</u>
Heart	Urine
Kidney	Memory
Skin	Circulation of blood
Lung	Carbon dioxide
Brain	sensory organ

(a) Heart
.....
.....

(b) Kidney
.....
.....

(c) Skin
.....
.....

(d) Lung
.....
.....

(e) Brain
.....
.....

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

(a) Heart

(b) Kidney

(c) Skin

(d) Lung

(e) Brain

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

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

i.

ii.

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

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

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

i. i.

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

y take place?

157. (a) In which part of the plant does photosynthesis mainl

place?

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

i.

ii.

(c) Give the difference between photosynthesis and transpiration

i. ii.
.....

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

.....
.....
.....
.....

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

.....
.....

(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?

.....
.....

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

.....
.....

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

.....
.....

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

.....
.....

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

.....
.....

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

.....
.....

160. (a) What are pollutants?

.....
.....

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

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

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

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

160. (a) What are pollutants?

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

i. ii.

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

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

(a) Green plants

(b) A goat

(c) A pig

(d) Bacteria

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

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

i.

(b) A goat

(c) A pig

(d) Bacteria

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

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

- i.
- ii.

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

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

- i.
- ii.
- iii.

- 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.

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

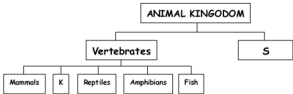
(b) Identify the importance of part marked X.

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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