1 Read these instructions carefully.
2 DO NOT turn this page before you are told. Your teacher will tell you when to turn this page to begin the questions.
3 There are 50 questions in this INTEGRATED SCIENCE PAPER. You will be given EXACTLY 60 MINUTES to do the questions.
4 For each question, four answers are given, but only one of the four is right. Work out which is the BEST answer. Then, on your ANSWER SHEET, mark the box completely by shading the answer space of the letter of your choice. If you had chosen answer D for a question, you would show it like this:-

A B C

5 You must SHADE your answer spaces COMPLETELY and DARKLY using an HB pencil. If you have to change your answer, you must rub out the shading VERY NEATLY before shading the new one. USE A CLEAN RUBBER.
6 When you have finished one page, go straight on without waiting to be told. If you have time left at the end of the question paper, use it to check your work carefully.
7 Look at your ANSWER SHEET. On the top left hand side are boxes which should have Examination Year, your School Number and Examination Number. It should also say Subject 4, Paper 1.
8 Look at your ANSWER SHEET again. At the bottom left hand side, it should have your Surname, Forename, Subject Integrated Science, Name of Primary School and your Secondary School of Choice.
9 PUT UP YOUR HAND NOW IF: You have any question.
   You have the wrong answer sheet.
   You will NOT be able to ask questions once the examination has begun.
   DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD.
   USE ONLY AN HB PENCIL FOR YOUR ANSWERS.

This question paper consists of 11 printed pages.
1 Diarrhoea, dysentery, typhoid and cholera are caused by eating ... food.
   A contaminated
   B overcooked
   C preserved
   D warm

2 Which of the following organs is affected by drinking too much alcohol?
   A Heart
   B Liver
   C Muscles
   D Skin

3 Describe the correct path of food in the alimentary canal.
   A Anus → large intestine → small intestine → stomach
   B Large intestine → small intestine → anus → stomach
   C Small intestine → stomach → large intestine → anus
   D Stomach → small intestine → large intestine → anus

4 Skin lightening creams should be avoided because they ... 
   A are expensive.
   B are not easily available.
   C cause skin damage.
   D can poison people.

5 The diagram below shows the rate of weathering by different agents.

   From the diagram above, which agent played a big role in weathering?

6 The process by which plants make their own food is known as ... 
   A digestion.
   B gestation.
   C photosynthesis.
   D pollination.
7  A meal that contains carbohydrates, proteins, fats, vitamins and minerals is said to be ...  
   A  an unbalanced diet.  
   B  a full meal.  
   C  a delicious meal.  
   D  a balanced diet.

8  The electrical appliance below is used for ...  

   A  cooking.  
   B  lighting.  
   C  ventilation.  
   D  sewing.

9  Study the following diagram.

Which part can be used when we want to dial a number?

10 Which of the following animals lays eggs, has a tail, sharp nails, horny scales and streamlined body?  
   A  Bird  
   B  Frog  
   C  Snake  
   D  Toad

11 Cuts can be prevented by ...  
   A  avoiding fights.  
   B  handling sharp instruments with care.  
   C  playing away from the road.  
   D  staying away from fire.
12 The organs which can be damaged by smoking and taking too much alcohol are ...
   A  heart and liver.
   B  lungs and liver.
   C  skin and heart.
   D  skin and lungs.

13 Which features are placed under the correct organism?

<table>
<thead>
<tr>
<th>Frog</th>
<th>Lizard</th>
</tr>
</thead>
<tbody>
<tr>
<td>A  Has four legs</td>
<td>Has two legs</td>
</tr>
<tr>
<td>B  Has feathers</td>
<td>Has hair</td>
</tr>
<tr>
<td>C  Skin is smooth</td>
<td>Skin has scales</td>
</tr>
<tr>
<td>D  Tail present</td>
<td>Tail absent</td>
</tr>
</tbody>
</table>

14 ... is a mixture of gases.
   A  Air
   B  Oxygen
   C  Pollution
   D  Water

15 Study the diagram below.

[Diagram of an electrical plug]

The part labeled X is ...
   A  neutral.
   B  live.
   C  earth.
   D  plug.

16 What works like lungs in fish?
   A  Gills
   B  Mouth
   C  Nostrils
   D  Scales
17 The correct causes of the diseases mentioned are...

<table>
<thead>
<tr>
<th>HIV and AIDS</th>
<th>Tuberculosis</th>
<th>Malaria</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Bacteria</td>
<td>Parasite</td>
<td>Virus</td>
</tr>
<tr>
<td>B Parasite</td>
<td>Virus</td>
<td>Bacteria</td>
</tr>
<tr>
<td>C Bacteria</td>
<td>Virus</td>
<td>Protozoa</td>
</tr>
<tr>
<td>D Virus</td>
<td>Bacteria</td>
<td>Protozoa</td>
</tr>
</tbody>
</table>

18 Study the graph below.

![Percentage of HIV Infection](image)

The graph shows that HIV infection was...

- A constant.
- B decreasing.
- C increasing.
- D varying.

19 A farmer put a heap of leaves, grass, dead animals and sticks on the farm land. The farmer wanted to make...manure.

- A animal
- B compost
- C green
- D plant

20 The difference between magnetic and non-magnetic materials is that they do...

<table>
<thead>
<tr>
<th>Magnetic</th>
<th>Non-magnetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>A not attract magnetic material</td>
<td>attract magnetic material</td>
</tr>
<tr>
<td>B not conduct heat and electricity</td>
<td>conduct heat and electricity</td>
</tr>
<tr>
<td>C attract magnetic material</td>
<td>not attract magnetic material</td>
</tr>
<tr>
<td>D attract wood material</td>
<td>attract metal material</td>
</tr>
</tbody>
</table>
21 The energy changes that take place in the diagram below are ...

A  electrical → mechanical  
B  heat → mechanical  
C  mechanical → electrical  
D  motor → heat

22 What are the consequences of abusing alcohol and drugs?
A  Financial and health problems  
B  Good behaviour and social problems  
C  Health problems and more money  
D  Social problems and self esteem

23 A magnet is made up of 2 poles which are ...
A  east and west.  
B  north and south.  
C  south and east.  
D  west and north.

24 Which of the following is not a basic rule of first aid?
A  Work quickly but do not rush.  
B  Make sure the person has enough oxygen.  
C  Keep the body at the right temperature.  
D  Keep the person inside the house with closed windows.

25 Waterborne diseases are prevented by ...
A  bathing with soap and water.  
B  not fetching water in containers.  
C  washing hands after using the toilet.  
D  wearing clean clothes every day.

26 Electric kettles are made of plastic handles. This is because plastic ...
A  allows heat to pass through it.  
B  does not allow heat to pass through it.  
C  is the cheapest material to buy.  
D  is a good conductor of heat.

27 The best medium for sound to travel in is ...
A  water.  
B  soil.  
C  ear.  
D  air.
28 Vegetables in the garden are always sprayed with pesticides in order to control ... 
   A aphids. 
   B flies. 
   C frogs. 
   D worms.

29 When white blood cells are damaged, it means that the ... 
   A person is dead. 
   B body cannot fight infections. 
   C person has anaemia. 
   D person has no blood.

30 Lizards and Geckos are examples of ... 
   A amphibians. 
   B birds. 
   C fish. 
   D reptiles.

31 The energy changes that take place in the diagram below are ... 

```
   A electrical → light → heat 
   B heat → electrical → light 
   C heat → light → electrical 
   D light → heat → electrical
```

32 Overcrowding of fish in a pond is bad because it may cause fish to ... 
   A become salty. 
   B be depopulated. 
   C be slippery. 
   D lose taste.

33 Which of the following is the best reason for wearing clean clothes? 
   A Make us look smart and presentable. 
   B Protect our bodies from HIV infection. 
   C Remove dirt and bad odours. 
   D Remove sweat and parasites.
34 Which of the following contents of the first aid box matches to its use?

<table>
<thead>
<tr>
<th>Item</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Bandage</td>
<td>head band</td>
</tr>
<tr>
<td>B Cotton wool</td>
<td>cleaning wounds</td>
</tr>
<tr>
<td>C Methylated spirit</td>
<td>relieving pain</td>
</tr>
<tr>
<td>D Scissors</td>
<td>cutting wounds</td>
</tr>
</tbody>
</table>

35 What is the difference between luminous and non luminous sources of light.

A Luminous bodies are direct sources of light while non luminous bodies are not.
B Luminous bodies are indirect sources of light while non luminous bodies are direct sources of light.
C Luminous bodies do not produce their own light while non luminous bodies produce their own light.
D Non luminous surfaces produce their own light while luminous surfaces do not produce their own light.

36 Which of the following is a reflective surface?
A Sun
B Star
C Asteroid
D Fires

37 When recording the amount of rainfall, the rain gauge is placed at an open area so that ...

A it records accurately.
B it collects more rain.
C people can see it.
D the units are visible.

38 Tsetse flies cause a diseases called ... in cattle.
A anaemia
B anthrax
C trypanosomiasis
D typhoid

39 Study the diagram below.
Heat would reach the hand by ... 
A conduction.  
B convection.  
C evaporation.  
D radiation.

40 The male parts of a flower are called ...  
A Pistils.  
B Sepals  
C Stamens  
D Styles

41 The diagram shows some parts of the circulatory system.

What are the parts labelled X, Y, and Z?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Y</td>
<td>Z</td>
</tr>
<tr>
<td>A</td>
<td>Vein</td>
<td>Lungs</td>
</tr>
<tr>
<td>B</td>
<td>Heart</td>
<td>Artery</td>
</tr>
<tr>
<td>C</td>
<td>Artery</td>
<td>Vein</td>
</tr>
<tr>
<td>D</td>
<td>Lungs</td>
<td>Heart</td>
</tr>
</tbody>
</table>

42 The table below shows Luminous and reflective surfaces.

<table>
<thead>
<tr>
<th>Reflective Surface</th>
<th>Luminous Surfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venus</td>
<td>Star</td>
</tr>
<tr>
<td>Asteroids</td>
<td>Fire fly</td>
</tr>
<tr>
<td>Mirror</td>
<td>Moon</td>
</tr>
</tbody>
</table>

Which of these surfaces is put under a wrong heading?  
A Moon  
B Mirror  
C Venus  
D Firefly
43 When a heavy stone is dropped onto a table, it produces a ... 
   A high sound. 
   B loud sound. 
   C low sound. 
   D soft sound. 

44 Why should a breastfeeding mother whose body is dehydrated be worried? Because the baby ... 
   A can be thin. 
   B may be hungry. 
   C might die. 
   D would be thirsty. 

45 A drum produces a high pitch when it is warmed. This is because the skin is ... 
   A hardened. 
   B loosened. 
   C softened. 
   D tightened. 

46 Four equal samples of soil are placed in four different funnels and an equal volume of water added to each funnel. The results are shown below. Which funnel contains clay soil? 

   A   B   C   D 

47 Which of the following is the correct order of copper extraction? 
   A Crushing, floatation, drilling, blasting. 
   B Drilling, blasting, crushing, floatation. 
   C Drilling, blasting, floatation, crushing. 
   D Floatation, drilling, blasting, crushing. 

48 Organic fertilizers are made from ... 
   A plants and artificial chemicals. 
   B plants and animal matter. 
   C animal matter and artificial chemicals. 
   D artificial chemicals only 

49 Which of the following is not part of the solar system? 
   A The asteroids 
   B The comets 
   C The stars 
   D The sun
50 Study the diagram below.

What method of water purification is used above?
A Boiling
B Chlorination
C Distillation
D Filtration

STOP! PLEASE GO BACK AND CHECK YOUR WORK.