



EXAMINATIONS COUNCIL OF ZAMBIA
GRADE SEVEN COMPOSITE EXAMINATION 2010
INTEGRATED SCIENCE

SUBJECT 4/1

60 MINUTES

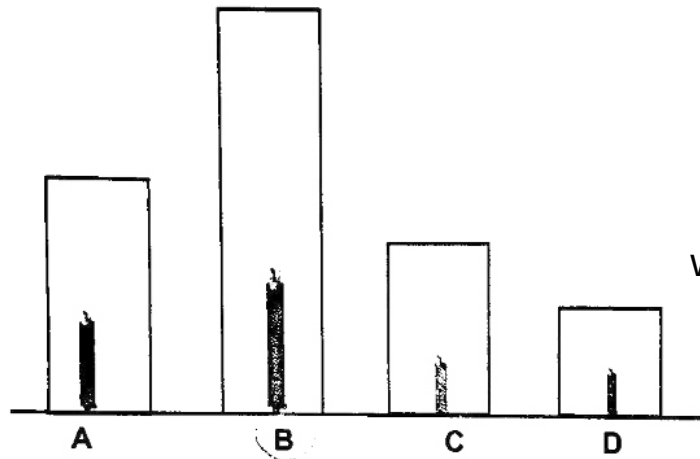
TD18C4/SC4/G7/2010

- 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
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	
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- 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.

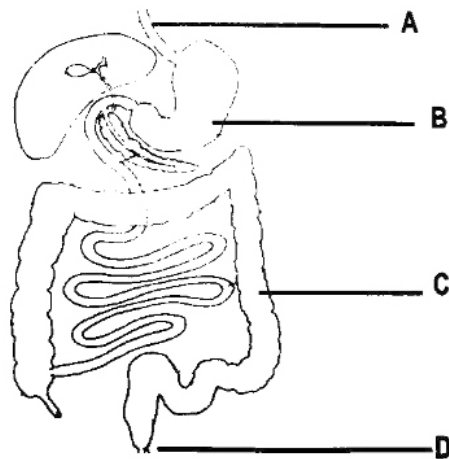
DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD.
USE ONLY AN HB PENCIL FOR YOUR ANSWERS.

- 1 Which disease will affect you if you don't use a mosquito net?
- A Malaria
 - B Measles
 - C Mumps
 - D Mapsscabies
- 2 What do we call an instrument used to measure the amount of rainfall?
- A Rain scale
 - B Rain vane
 - C Rain gauge
 - D Rain mill
- 3 In which of the following jars will the candle burn longest?



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- 4 Study the diagram of the Digestive System below.



Name the part labeled B.

- A** Mouth
- B** Stomach
- C** Large intestines
- D** Rectum

5 Choose a skin disease from the following.

- A** Dysentery
- B** Typhoid
- C** Scabies
- D** Cholera

6 Which of the following is the best method of preventing the spread of the virus that causes AIDS?

- A** Having sex with people who are trusted in your community.
- B** Using condoms each time they want to have sex.
- C** Using contraceptives each time they want to have sex.
- D** No sex before marriage.

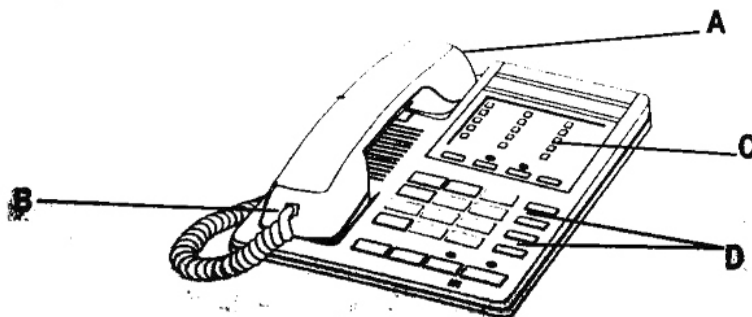
7 What will happen to a magnet if it is dropped and hammered several times? It will ...

- A** lose its magnet power.
- B** become a stronger magnet.
- C** become an electro magnet.
- D** become a temporal magnet.

8 Which parts of the house allow air to enter the house?

- A** Door and walls.
- B** Windows and vents.
- C** Roof and door.
- D** Walls and roof.

9 Study the diagram of a telephone below.



The ear piece is represented by the letter ...

- A** A.
- B** B.
- C** C.
- D** D.

10 Which of the following organs is correctly paired with its functions?

- A** Heart – purification of blood
- B** Lungs – pumping of blood
- C** Skin – absorption of heat
- D** Stomach – storage of food

11 Apart from manure and crop rotation, soil fertility can be improved by using ...

- A** fertilizers.
- B** lime.
- C** ploughing.
- D** weeding.

12 Study the list of materials below.

- Aluminium
- Plastic bag
- Copper wire
- Nylon cloth
- Silver wire
- Varnished wire
- Varnished wood

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Which of the materials are bad conductors of heat?

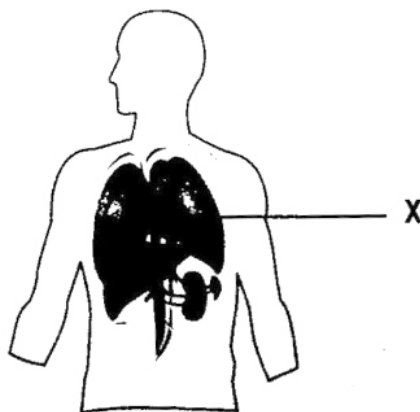
- A** All listed material are good conductors.
- B** All listed materials are bad conductor.
- C** Plastic bag, nylon cloth, varnished wood are bad conductors.
- D** Aluminium wire, copper wire and silver wire are bad conductors.

13 Malnutrition means ...

- A** bad feeding.
- B** good feeding.
- C** eating more fruits.
- D** eating less fruits.

- 14 All sounds are produced by ...
- A bangs.
 - B prisms.
 - C explosion.
 - D vibrations.
- 15 The following are different types of water treatment. Which one is correct?
- A Boiling and chlorination
 - B Boiling and cooling
 - C Boiling and evaporation
 - D Evaporation and chlorination
- 16 What process do plants use to make their own food?
- A Transpiration
 - B Respiration
 - C Photosynthesis
 - D Germination
- 17 Why are skin lightening creams bad for our skin? They ...
- A lead to skin cancer.
 - B add beauty to people.
 - C promote HIV and AIDS.
 - D affect the brain.
- 18 Study the diagram showing parts of the Circulatory System.

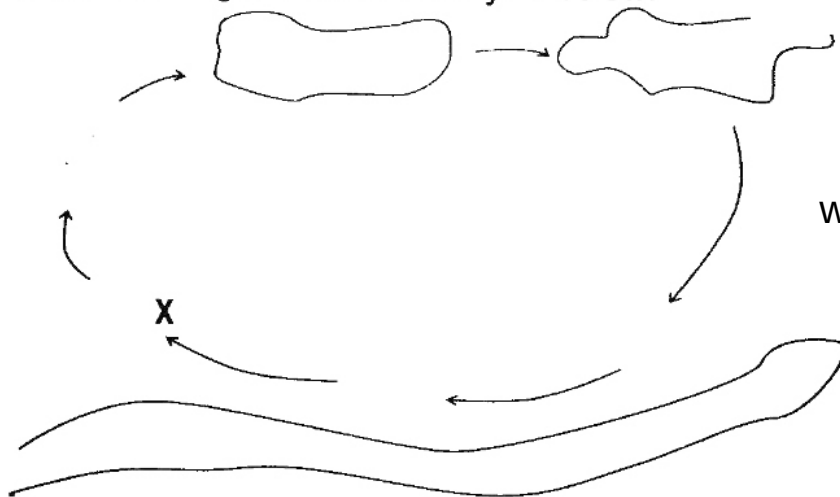
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- The function of the part labeled X is to ...
- A carry oxygen to all parts of the body.
 - B pump blood to all parts of the body.
 - C purify blood and water.
 - D remove carbondioxide from the lungs.

- 19 Which of the following shows the correct order of organs of the Alimentary Canal beginning from the mouth?
- A Gullet, stomach, small intestines, large intestines, rectum and anus.
 - B Gullet, stomach, large intestines, small intestines, rectum and anus.
 - C Anus, rectum, small intestines, large intestines, stomach and gullet.
 - D Gullet, stomach, large intestines, small intestines, anus and rectum.
- 20 Bananas are flowering plants that do not produce seeds. They are reproduced by ...
- A stem cuttings.
 - B runners.
 - C rhizomes.
 - D suckers.

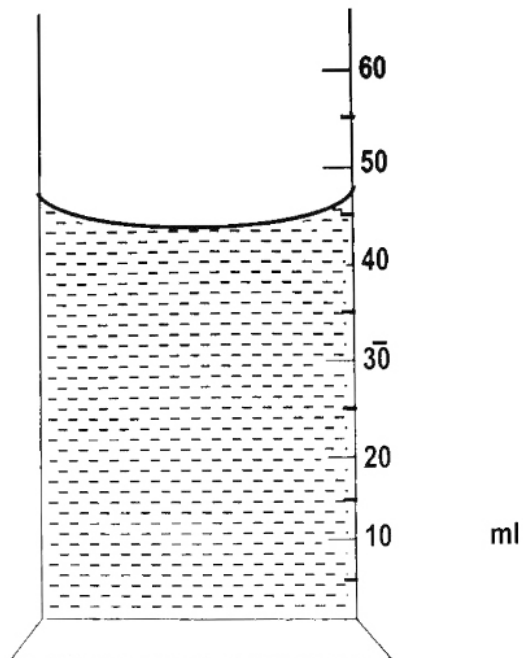
- 21 Study the diagram of the rain cycle below.



The process taking place at X is ...

- A condensation.
 - B evaporation.
 - C transpiration.
 - D precipitation.
- 22 From the lists below, which **one** consists of substances that pollute air?
- A Dust, smoke and carbonmonoxide.
 - B Dust, smoke and oxygen.
 - C Other gases and nitrogen.
 - D Smoke, oxygen and domestic water.

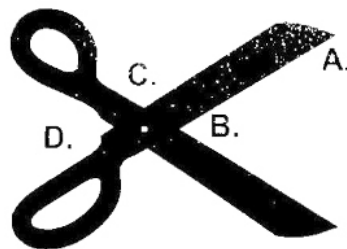
- 23 Study the diagram of measuring cylinder below. The volume of the liquid is ... ml.



- A 10 ml.
- B 30 ml.
- C 45 ml.
- D 50 ml.

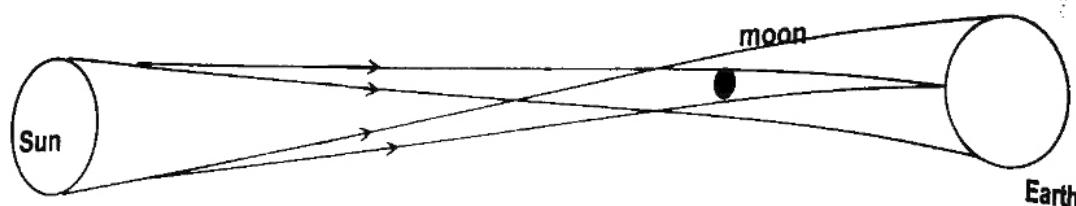
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- 24 Study the diagram of a simple machine below.

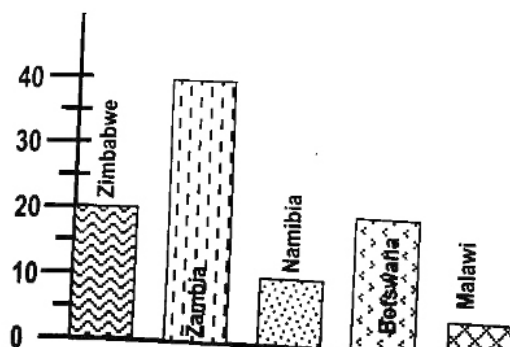


The effort is applied at ...

- 25 The diagram below shows an Eclipse of the ...



- A Moon.
B Sun.
C Earth.
D Stars.
- 26 In which of the following plants are seedlings usually **not** transplanted?
A Tomatoes
B Rape
C Cabbage
D Carrots
- 27 Water found in the soil is useful because it ...
A helps in formation of rocks.
B helps the plants to absorb mineral salts.
C it makes the soil fertile.
D reduces the number of living organism in the soil.
- 28 Plants that have pods are known as ...
A cereals
B legumes.
C fruits.
D beans.
- 29 The bar graph shows the percentage of HIV and AIDS in five African countries.



According to the graph, which countries have the same percentage of people living with HIV and AIDS?

- A** Zambia and Botswana
- B** Zimbabwe and Malawi
- C** Botswana and Zimbabwe
- D** Namibia and Malawi

30 Which of the following is one of the characteristics of an amphibian?

- A** Moist skin
- B** Dry scales
- C** Feathers
- D** Hair

31 Which of the following domestic appliances does **not** use a magnet?

- A** Fridge
- B** Pressing Iron
- C** Radio
- D** Fan

32 Seasonal reproduction does not take place in mushrooms because they do not have ...

- A** chlorophyll.
- B** stems.
- C** roots.
- D** flowers.

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33 The soil on a farm is dark brown, crumbly and crops grow well in it. The soil is...

- A** sandy.
- B** clay.
- C** loam.
- D** gravel.

- 39 The three (3) main groups of food are ...
- A nutrients, proteins and body building food.
 - B body building, protective and vitamins.
 - C protective food, body-building and energy.
 - D energy giving food, mineral salts and food.
- 40 Name the sweet liquid produced by a flower.
- A Anther
 - B Style
 - C Nector
 - D Pollen
- 41 Mines are located away from homes in order to ...
- A prevent accidents due to explosions.
 - B prevent children going near the mines.
 - C reduce the effects of pollution.
 - D prevent theft of the minerals.
- 42 A patient with diarrhoea should be encouraged to take oral re-hydration salt in order to ...
- A restore the energy.
 - B replace the lost water and salt.
 - C make him enjoy the drink.
 - D stop the diarrhoea.
- 43 Parallel arrangements are used in domestic electrical circuits because ...
- A the bulbs give more light in parallel than in series.
 - B more current goes round the circuit.
 - C appliances are used without fuse fittings.
 - D not all bulbs are affected when one goes off.
- 44 The correct order of energy changes at a hydro-electric power station (HEP) when electricity is generated are ...
- A electrical → potential → kinetic → mechanical.
 - B mechanical → electrical → kinetic → potential.
 - C chemical → mechanical → kinetic → electrical.
 - D potential → kinetic → mechanical → electrical.
- 45 A pupil alone in an empty school hall blows a whistle and a few seconds later hears the same whistle sound. This is an example of ...
- A pitch.
 - B frequency.
 - C vibration.
 - D echo.

- 46** A person who takes a bath and wears clean clothes will always feel free about him/herself in front of other people. This is called ...
- A** self esteem.
 - B** selfishness.
 - C** cleanliness.
 - D** good appearance.
- 47** In a car battery, what are the stages of energy change?
- A** Chemical – Mechanical
 - B** Mechanical – Electrical
 - C** Chemical – Electrical
 - D** Electrical – Chemical
- 48** The amount of water vapour in the atmosphere is called ...
- A** rainfall.
 - B** humidity.
 - C** condensation.
 - D** evaporation.
- 49** The excessive loss of water by the human body is called ...
- A** sweating.
 - B** rehydration.
 - C** vomiting.
 - D** dehydration.
- 50** A plant which grows where it is not wanted such as among crops is called a ...
- A** decorative.
 - B** weed.
 - C** food crop.
 - D** crop rotation.

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STOP! PLEASE GO BACK AND CHECK YOUR WORK.