

Rwanda National Science and Elementary Technology

Exam Collection (2002 - 2023)

This document is a compilation of all Rwanda National Kinyarwanda exams from 2002- 2023, carefully assembled by Tubimenye Smart Solution Ltd.

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Best of luck!

Urutonde rw'Ibizamini bya Leta bya Science and Elementary Technology mu Rwanda (2007 - 2023)

Iyi nyandiko ni urutonde rw'Ibizamini bya Leta by'lkinyarwanda byatanzwe mu Rwanda kuva mu mwaka wa 2002 Kugeza 2023, yahurijwe hamwe na Tubimenye Smart Solution Ltd.

Teza Imyigire Yawe Imbere Ukoreshheje Ikoranabuhanga rya AI!



Gusubira mu Ibizamini bya Leta mu Gihe Gito ukabona ibisubizo:

Gerageza uko ushoboye ukoreshheje igisubizo cyacu cya AI Model ishoboye gukosora ibizamini mu buryo bwiyhuse n'iyo udafite internet igatanga amaota ako kanya Kanda hano <https://mytrained.web.app/> cyangwa ushake App yitwa My Trained kuri Play Store.



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Tubifuriye amahirwe masa!

TUBIMENYE SMART SOLUTION Ltd



KANDA *584# NA SMART PHONE YAWE:

WIGE AMATEGEKO Y'UMUHANDA
MUBIROYO BWIZA, BWIYHUSE
UTAVUYE AHO URI

KURI PLAY STORE
ANDIKA:
MATEGEKO Y'UMUHANDA V3

UBONE AI MODEL IKORESH'UBUHANGA BWA AI MUKWIGISHA:

WIGE, USUBIREMO IBIZAMINI BYA LETA BYOSE, HOMEWORKS,
HOLIDAY PACKAGES, IELT PREP, TOEFL PREP, ETC...



KURI PLAY STORE

ANDIKA:
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Helpline

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SURA: <https://mytrained.web.app/>
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Science and Elementary Technology
PSET
18/07/2023
09: 00 AM - 11: 00 AM



Pupil's complete index number

Province/ City	District	Sector	School	Level	Pupil	Year

Pupil's names

Surname:.....

Other names:.....

NB: PUPIL'S INDEX NUMBER AND NAMES
MUST BE WRITTEN AS THEY APPEAR ON THE
 REGISTRATION FORM

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2022-2023

SCIENCE AND ELEMENTARY TECHNOLOGY

Duration: Two hours

Marks: /100

INSTRUCTIONS

- 1) Do not open this question paper until you are told to do so.
- 2) This paper has **one section**.
- 3) All questions are compulsory and must be answered as instructed.
- 4) Read each question carefully before answering it.
- 5) Answer the questions in the space provided in this question paper.
- 6) You must use a **blue** or **black** pen and a pencil for drawing.

Attempt ALL questions.

1) How is agriculture important to humans?

(2 marks)

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

2) Write down any two ICT tools which are used in communication.

(2 marks)

.....
.....

3) How are plants useful to people?

(2 marks)

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

4) How can you maintain trees healthy?

(2 marks)

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

5) Name any one tool that can be used to cut papers when making utility objects.

(1 mark)

.....

6) Name any two bad effects of heavy rain to the environment.

(2 marks)

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.....

7) Identify any two human activities that can lead to water pollution. **(2 marks)**

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8) What are metals? **(2 marks)**

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.....

9) Explain how chicken diseases can be prevented. **(2 marks)**

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10) Explain the importance of adding fertilizers to soil. **(3 marks)**

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.....

11) Name any two ways of protecting environment from soil erosion. **(2 marks)**

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.....

12) Name any two objects that can be made from wires. **(2 marks)**

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.....

- 13) Explain why the sound from a long-distance is clearer during the night than during the day. **(2 marks)**

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.....
.....

- 14) Identify any two major classes of vertebrates. **(2 marks)**

.....
.....

- 15) What is the importance of rabbit keeping? **(2 marks)**

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.....
.....

- 16) Give any one tool that is used by mechanics. **(1 mark)**

.....

- 17) State any two ways of maintaining mechanical and blacksmith tools. **(2 marks)**

.....
.....

- 18) Match the simple machines below to their uses. **(4 marks)**

Machines	Uses
Needle	for transporting loads.
Fishing rod	for digging.
Wheel barrow	for knitting clothes
Hoe	for catching fish

- 19) Tom and Jane are sitting on a seesaw. If Jane who is 6 cm away from the fulcrum weighs 40 kg, find the mass of Tom who is 8 cm away from the fulcrum. **(2 marks)**

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

- 20) Give any two objects which you can make out of banana fibres. **(2 marks)**

.....
.....

- 21) Give the material from which each of the following objects is made. **(4 marks)**

Socks

Dolls.....

Polygons.....

Toy car

- 22) Mention any two tasks that can be performed using different computer applications. **(2 marks)**

.....
.....

- 23) Give any one requirement that is needed to open up an E-mail account. **(1 mark)**

.....

- 24) What is the difference between a file and a folder? **(1 mark)**

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

25) Define the following terms as they are used in scratch activity: **(2 marks)**

a) Sprite.....

.....

b) Animation.....

.....

26) What advice would you give to people who use fossil fuel as a source of energy? **(2 marks)**

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.....
.....

27) State any one danger of polluted air. **(1 mark)**

.....

28) What is another name for biodegradable waste? **(1 mark)**

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.....

29) Apart from vaccinating goats and cattle, name other two ways of preventing diseases. **(2 marks)**

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30) Explain the importance of keeping sanitation in an animal farm. **(2 marks)**

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.....
.....

31) Define the term incubation. **(1 mark)**

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.....

32) Draw and label an insect with its 3 major parts.

(3 marks)

33) What type of first aid that should be given in case of muscle cramp attack?

(2 marks)

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.....
.....

34) Organize the following crops into legumes, root tubers, vegetables and fruits.

(4 marks)

Beans, Cassava, mango, Cabbage, Soya beans, Carrot, Apple, spinach.

Legumes	Root tubers	vegetables	Fruits

35) Distinguish between balanced diet and carbohydrates.

(2 marks)

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

- 36) Outline any two examples of digestive glands. **(2 marks)**

.....
.....

- 37) Draw a diagram to show an incident ray reflecting after falling on a plane mirror. **(3 marks)**

- 38) Match the following deficiency diseases to their causes. **(4 marks)**

Diseases

Goitre

Causes

lack of carbohydrates

Kwashiorkor

lack of iodine.

Anaemia

lack of proteins.

Marasmus

lack of iron.

- 39) Outline the elements of a balanced diet. **(2 marks)**

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

40) Complete the following with a correct digestive juice secreted by each body organ. **(2 marks)**

a) The liver:.....

b) Pancreas:.....

41) Develop any two ways that can be applied to prepare organic manure.

(2 marks)

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

42) Identify the mode of asexual reproduction that can be applied in the crops below. **(2 marks)**

a) Straw berry.....

b) Cassava.....

43) How do we call the liquid part of blood? **(1 mark)**

.....
.....

44) Name one type of breathing. **(1 mark)**

.....

45) What advice can you give to prevent unwanted pregnancy? **(2 marks)**

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.....
.....

46) What is reproduction? **(1 mark)**

.....
.....

47) Give any two ways of maintaining respiratory system. **(2 marks)**

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.....

48) Name one state of matter. **(1 mark)**

.....

49) Name any two objects at home which need magnets to function. **(2 marks)**

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50) Differentiate between renewable energy and non-renewable energy. **(2 marks)**

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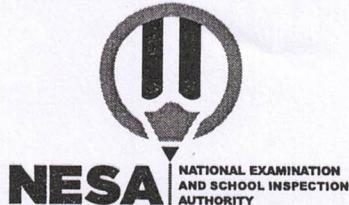
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Science and Elementary Technology

PSET

19/07/2022 09: 00-11: 00 AM



Pupil's complete index number

Province/ City	District	Sector	School	Level	Pupil	Year

Pupil's names

Surname:.....

Other names:.....

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REGISTRATION FORM

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2021-2022

SCIENCE AND ELEMENTARY TECHNOLOGY

Duration: Two hours

Marks:

/100

INSTRUCTIONS

- 1) Do not open this question paper until you are told to do so.
- 2) This paper has **two sections: A and B**.
- 3) Questions in both sections are compulsory and must be answered as instructed.
- 4) Read each question carefully before answering it.
- 5) Answer the questions in the space provided on this question paper.
- 6) You must use a **blue** or **black** pen and a pencil for drawing.

PRIMARY LEARNING NATIONAL EXAMINATIONS, 2021-2022

SCIENCE AND ELEMENTARY TECHNOLOGY

Draft version: Two points

\100

Marks:

Instructions:

- (1) Do not open this question paper until the boy or girl so does.
(2) This paper uses two categories: A and B.
(3) Questions in part A require the combination of concepts and must be answered as integrated.
(4) Read each question carefully before answering it.
(5) Answer the questions in the space provided on this question paper.
(6) You must use a pen or pencil for drawings.

SECTION A: ATTEMPT ALL QUESTIONS (50 marks)1) List down any two examples of agricultural tools. **(2 marks)**

(i)

(ii)

2) What is the difference between a spirit level and a plumb line? **(2 marks)**.....
.....3) Explain any one use of a flash disk. **(1 mark)**.....
.....4) How would you reduce friction in a machine and other bodies? **(2 marks)**.....
.....5) How is communication important to people? **(2 marks)**.....
.....6) Complete the table below. **(3 marks)**

Tool	use
clamp	
	Cutting metals
Bellow	

7) Which two ways can you use to prevent accidents in a mechanic's workshop? **(2 marks)**

(i)

(ii)

- 8) Explain how toys are useful to children. **(2 marks)**
 (a) ...
 (b) ...

- 9) List any two popular programming languages for children. **(2 marks)**
 (i) ...
 (ii) ...

- 10) Match the category of materials below with their corresponding use. **(3 marks)**

Materials	Use
a) Spatula, hoe handle.	i) Learning objects
b) Square, Cube, Triangle.	ii) Toy objects
c) doll, teddy bear	iii) Utility objects

- 11) List any two materials we use to make learning objects. **(2 marks)**

- (i) ...
 (ii) ...

- 12) Which techniques would you use when making a basket? **(2 marks)**

Tool	Technique
.....
.....
.....

- 13) Explain how a computer is useful in our daily life. **(3 marks)**

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

14) Match the ICT terms below with their meaning. (2 marks)

Terms	Meaning
a) Hard ware	i) Computer programs
b) Internet	ii) Physical component of a computer
c) Software	iii) World wide interconnection
d) Application	iv) Instructions written by computer specialist

15) Air is a mixture of gases. Give any two examples of gases

found in air.

(2 marks)

(i)

(ii)

16) Give any one chemical substance from industries that destroys
Ozone layer. (1 mark)

.....
.....

17) In order to send and receive an e-mail, both the sender and
receiver must have..... (2 marks)

a) Bank account b) e-mail account

c) Post office d) e- banking

18) Which of the following is the percentage of Nitrogen in the
atmospheric air? (1 mark)

a) 78% b) 21% c) 0.1%

.....
.....

19) Give any two diseases associated with polluted water. (2 marks)

(i)

(ii)

20) Explain the difference between evaporation and condensation. **(2 marks)**

.....

.....

.....

.....

.....

.....

21) Give any two human activities that can cause global warming. **(2 marks)**

- (i)
- (ii)

22) Give any two types of soil. **(2 marks)**

- (i)
- (ii)

23) Explain why fertilizers are used in Agriculture. **(2 marks)**

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.....

24) Why has the government of Rwanda stopped the use of plastic bags? **(2 marks)**

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25) Why is it necessary for all homes to have toilets/latrines? **(2 marks)**

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SECTION B: ATTEMPT ALL QUESTIONS (50 marks)

26) Match the diseases with their symptoms.

(2 marks)

Diseases	Symptoms
i) Tapeworms	a) Difficulty in breathing
ii) Pneumonia	b) Worms might be seen in droppings

27) Suggest any two conditions of a good chicken house.

(2 marks)

- (i)
- (ii)

28) Match each animal with its respiratory organs.

(2 marks)

Animals	Respiratory organs
a) Tilapia	i) Book lungs/trachea
b) Spider	ii) Gills
c) Mosquito	iii) Spiracles
d) Man	iv) Lungs

29) Why is the government of Rwanda emphasizing that there should be at least one cow per family?

(1 mark)

-
-

30) Name two animals that breath through spiracles.

(2 marks)

- (i)
- (ii)

31) What is the difference between photosynthesis and transpiration? **(2 marks)**

(a) 2 marks

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

32) Match each part of a flower with its function. **(3 marks)**

Parts of flower

- a) Petals
- b) Sepals
- c) Stigma
- d) Style
- e) Ovary
- f) Anther

Function

- i) Contains ovules
- ii) Receives pollen grains
- iii) Holds stigma in position
- iv) Produces pollen grains
- v) Protect young flower
- vi) Attract pollinators.

33) Draw the female part of a flower and name its parts. **(2 marks)**

(a) 1 mark

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

34) Give the difference between pollination and fertilization **(2 marks)**

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

35) Study the table below and fill in the missing information.

(4 marks)

Organ	sense	nerve
eye	sight	
Tongue		Gustatory /Lingual
ear	Hearing	
	smell	Olfactory nerve

36) Complete the sentences below with appropriate terms.

(2 marks)

a) Organs that help us to see, hear, smell, taste, and feel are called

.....

b) Our body is supported by a framework of bones called

.....

37) Give the difference between short sightedness and long sightedness (1 mark)

.....
.....

38) Observe the following food substances in the table and give the end

products after digestion. (3 marks)

Food substances	End product
Carbohydrates	
Proteins	
Fats	

39) Give any one important hormone that helps in the growth of the body during

adolescence in both boys and girls.

(2 marks)

In boys:

In girls:

40) Mention any three functions of blood in the human body. **(3 marks)**

(i)

(ii)

(iii)

41) Describe what happens to the ribs and lungs when we breath in and out.

(2 marks)

Breathing in:

Breathing out:

42) Suggest two ways of preventing the spread of sexually transmitted

diseases (STDs). **(1 mark)**

(i)

(ii)

43) Give the difference between sperm and ovum in terms of their shape

and size. **(2 marks)**

44) Match the process in A with its meaning in B **(2 marks)**

Process (A)	Meaning (B)
a) Ovulation	i) Union of sperm and ovum
b) Implantation	ii) Period from fertilization to birth.
c) Fertilization	iii) The release of ovum by the ovary.
d) Pregnancy	iv) Attachment of the embryo to the uterus

45) State two consequences of early teenager pregnancy. **(2 marks)**

(i)

(ii)

46) Matter can change from one state to another. State any one example to support this statement. **(1 mark)**

.....
.....

47) Give two reasons why some objects sink in water. **(2 marks)**

(i)

(ii)

48) Give any two properties of liquid. **(2 marks)**

(i)

(ii)

49) Give any two uses of electricity in our daily life. **(2 marks)**

(i)

(ii)

50) An object has a mass of 95 g and a volume of 19 cm³. **(1 mark)**

Calculate its density.

.....
.....

-END-

(a) mass (g)

42) State two consequences of early pregnancy

(i)

(ii)

(a) mass (g)

43) What can cause from one side of nation? Give an example to support this statement

(a) mass (g)

44) Give two reasons why some objects sink in water

(i)

(ii)

(a) mass (g)

45) Give any two properties of glass

(i)

(ii)

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(a) mass (g)

46) Give any two uses of electricity in our daily life

(i)

(ii)

(a) mass (g)

47) An object has a mass of 10g and a volume of 10 cm³. Calculate its density.

..... g/cm³

-END-

**Science and Elementary
Technology**

PSET

13/07/2021

09: 00-11: 00 AM



NESA NATIONAL EXAMINATION AND
SCHOOL INSPECTION
AUTHORITY

Pupil's complete index number

Province /City	District	Sector	School	Level	Pupil	Year
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Pupil's names

Surname:

Other names:

NB: PUPIL'S INDEX NUMBER AND NAMES
MUST BE WRITTEN AS THEY APPEAR ON THE
REGISTRATION FORM

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2021

SCIENCE AND ELEMENTARY TECHNOLOGY

Duration: Two hours

Marks:

/100

INSTRUCTIONS

- 1) Do not open this question paper until you are told to do so.
- 2) ***This paper consists of 12 pages and 40 questions. Before starting, check if all pages and all questions are there and are arranged in ascending order.***
- 3) This paper has **two sections: A and B**.
- 4) Questions in both sections are compulsory and must be answered as instructed.
- 5) Read each question carefully before answering it.
- 6) Answer the questions in the space provided on this question paper.
- 7) You must use **a blue or black** pen and a pencil for drawing.

SECTION A: Attempt all questions. (50 marks)

1) What kind of toy or learning material can you make from the following materials?

a) paper

..... (1mark)

b) clay

..... (1mark)

2) a) State any one material you use in the classroom to support your learning process.

..... (1mark)

b) How do you take care of your learning materials?

.....

(1mark)

3) Name the agricultural tool described below:

a) It is a plastic container with backpacks and spray guns.

..... (1mark)

b) We use this tool for collecting fallen leaves and levelling the soil

..... (1mark)

4) Describe the use of each of the following tools:

a) Spanner

.....

(1mark)

b) Hand saw

.....

(1mark)

c) Bellow

.....

(1mark)

5) a) Identify:

(i) Any one natural material used in construction site.

..... (1mark)

(ii) Any one masonry tool used in construction site.

..... (1mark)

b) Explain how the security measures can be applied in construction site.

.....

..... (1mark)

6) Use appropriate terms to complete the following statements:

a) The angle of incidence is to the angle
of reflection when a ray of light is reflected by a plane mirror. (1mark)

b) The ray of light going from glass to air
..... away from the normal. (1mark)

c) material is a material which allows
light to completely pass through it. (1mark)

7) a) Why is electricity important?

(i)
..... (1mark)

(ii)
..... (1mark)

b) Prove that electricity may be dangerous when it is mishandled.

.....
..... (1mark)

8) a) Provide any one non-metallic material.

..... (1mark)

b) Why is cooking utensil made of metal?

.....
.....
..... (1mark)

9) Use **true** or **false** to answer the sub questions below:

a) A hoe is second class lever.

..... (1mark)

b) A simple machine enables people to do work with less effort and a greater speed.

..... (1mark)

c) People should always be careful when using simple machines.

..... (1mark)

10) a) State any one advantage of using renewable energy.

..... (1mark)

b) What energy change takes place when a piece of wood is burned?

.....

..... (1 mark)

11) a) What happens when two unlike poles of two different magnets come closer to each other?

.....

..... (1mark)

b) What happens to the magnetic force between two magnets when the distance between two unlike poles increases?

Choose from decreases, increases or remains the same.

..... (1mark)

12) Read the statement below carefully and answer the questions that follow:

At 100°C and at standard pressure, water changes state from liquid water to gas (water vapour). At 0°C and below this temperature, liquid water becomes solid water called ice.

Questions.

a) (i) What is the boiling point of water?

..... (1mark)

(ii) Determine the melting point of ice.

..... (1mark)

b) Name the change phase from liquid water to ice.

..... (1mark)

13) Communication is a process of sending and receiving information from one person to another. Give any 4 means of communication used in Rwanda.

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

(4 marks)

14) Paint activity is used for(1 mark)

- a) Typing letters
- b) Painting
- c) Browsing
- d) Drawing, colour and editing
- e) None of these.

15) The process of writing a computer program is called.....

.....(1mark)

16) What do you understand by the term “ email”? (2 marks)

.....
.....

17) State whether the following statements are **True or False**.

(4 marks)

- a) Storage devices are only external:
- b) A user can make changes in ROM:
- c) CDs as well as DVDs are optical storage devices.....
- d) We can share files with others in the neighbourhood.

.....

18) What is a folder? (2 marks)

.....
.....

19) Give any 2 examples of general search engine. (2 marks)

.....
.....

20) Name any two popular programming languages for children. **(2 marks)**

.....
.....

21) Define the term Sugar interface. **(2 marks)**

.....
.....

SECTION B: Attempt all questions. (50 marks)

22) Water has been collected from a well.

Give three methods of making this water safe for drinking. **(3 marks)**

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

23) Name any two diseases associated with water pollution. **(2 marks)**

.....
.....

24) Which part of the Eye is responsible for the following:

(i) Formation of image. **(1 mark)**

(ii) Carrying image from the eye to the brain. **(1 mark)**

(iii) Changing the shape of the Lens. **(1 mark)**

- 25) Give examples of each of the following bones.
- a) Long bones. (1 mark)
-
- b) Short bones. (1 mark)
-
- c) Flat bones. (1 mark)
-
- 26) a) What are the major differences between sexual and asexual reproduction? (2 marks)
-
-
- b) What are secondary sexual characteristics for boys and girls?
- Boys.....
-
- Girls..... (2 marks)
-
- 27) a) Give any one habit that may lead a person to catch AIDS. (1 mark)
-
-
- b) Suggest the best way of controlling the spread of AIDS. (1 mark)
-
-
- 28) a) Give any three characteristics of living things. (3marks)
-
-
- b) A cow and a bat are classified as mammals. To which class of animals do the Tortoise and Lizard belong? (1 mark)
-
-
- 29) How are plants different from animals in the way they get their food? (2 marks)
-
-

30) Give two ways of controlling the spread of the following diseases without using drugs.

(i) AIDS (1 mark)

.....
(ii) Malaria (1 mark)

31) Give the function (use) of each of the following:

(i) White blood cells. (1 mark)

.....
(ii) Red blood cells. (1 mark)

.....
(iii) Platelets. (1 mark)

32) Apart from having bright colour, state any other one characteristic of insect pollinated flowers. (1 mark)

33) Apart from movement, give any other Two functions of human skeleton.

(2 marks)

34) a) Where in the digestive system do the following take place?

(i) Absorption of digested food. (1 mark)

.....
(ii) Absorption of water. (1 mark)

b) What are the end products of digestion of:

(i) Starch (1 mark)

.....
(ii) Proteins (1 mark)

.....
(iii) Fats (1 mark)

35) Give the function of the following plant parts:

(i) Roots

(2 marks)

.....
(ii) Stem

.....
(2 marks)

36) Complete the table below that compares Insect pollinated and Wind pollinated flowers.

Insect Pollinated Flower	Wind Pollinated Flower
(i)	
(ii)	
(iii)	
(iv)	

.....
(4 marks)

37) a) Give the general name of blood vessels which carry blood away from the heart to various parts of the body.

(1 mark)

.....
b) Why does blood go to the kidney during circulation?

(1 mark)

38) Suggest any Two problems of early pregnancy to a school girl below 18 years.

(2 marks)

.....
39) Apart from the skin and lungs, name any other excretory organ.

(1 mark)

.....
40) Give any one reason why people like brick makers need to feed on carbohydrates.

(1 mark)

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**Science and
Elementary Technology**

PSET

**05/11/2019
9:00 AM – 11:00 AM**



Rwanda Education Board

Pupil's complete index number

Province/ City	District	Sector	School	Pupil	Year
<input type="text"/>					

Pupil's names

Surname:

Other names:

NB : PUPIL'S INDEX NUMBER AND NAMES

**MUST BE WRITTEN AS THEY APPEAR ON THE
REGISTRATION FORM.**

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2019

SCIENCE AND ELEMENTARY TECHNOLOGY

DURATION: TWO HOURS

MARKS:

/100

INSTRUCTIONS

- 1) Do not open this question paper until you are told to do so.
- 2) *This paper consists of 12 pages and 49 questions. Before starting, check if all pages and all questions are there and are arranged in ascending order.*
- 3) This paper has **Two sections: A and B**.
- 4) Questions in both sections are compulsory and must be answered as instructed.
- 5) Read each question carefully before answering it.
- 6) Answer the questions in the space provided in this question paper.
- 7) You must use a **blue or black pen** and a **pencil** for drawing.

SECTION A: Attempt all questions. (50 marks)

1) a) Use **True** if the statement is correct and **False** if it is wrong to answer the sub questions below:

(i) An object that blocks light from passing through it is opaque **(1 mark)**

(ii) When a light ray is incident on a plane mirror, it refracts. **(1 mark)**

b) Describe any one property of the image of your face in a plane mirror.

.....
.....
.....
.....
.....
(1mark)

2) State any two uses of solar energy.

a).
.....
.....
.....
(1mark)

b).
.....
.....
.....
(1mark)

3) Use the appropriate tool from the following list : *Trowel, wood chisel, open, ended spanner, tongs, plane*; to answer the questions below:

a) Name any one carpentry tool.

..... **(1mark)**

b) Identify one mechanics tool and one blacksmith tool.

Mechanics tool **(1mark)**

Blacksmith tool **(1mark)**

4) Give any two potential dangers that repair and maintenance workers of masonry, carpentry, agricultural, mechanics and blacksmith tools usually face.

- a) (1mark)
- b) (1mark)

5) a) Name any one agricultural tool.

..... (1mark)

b) Two reasons why farmers put oil or grease on metal parts of agricultural tools are :

- (i) (1mark)
- (ii) (1mark)
- (1 mark)

6) Complete the statements below on magnetism.

a) is the region present on a magnet where force of attraction or repulsion acts. (1 mark)

b) The magnetic poles of a magnet are pole and pole. (2 marks)

7) Describe the characteristics of a liquid in terms of shape and volume.

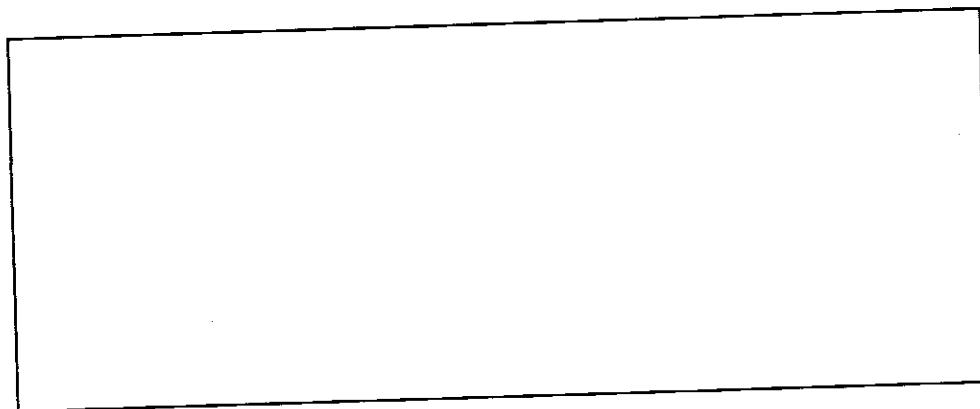
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(2 marks)

8) a) Draw an object that you can make using clay

(2marks)

(i) Drawing



(ii) The name of the object drawn is:

(1mark)

b) Propose one way that you can use to effectively maintain utility and learning objects produced by you and your classmates/colleagues

(1mark)

9) The volume of a certain sample of gold is 2 cm^3 and its density is 19.32 g/cm^3

a) (i) Write the formula for calculating the mass of gold.

(1mark)

(ii) Calculate the mass of gold and write its units.

(1mark)

b) The density of water is 1g/cm^3 .

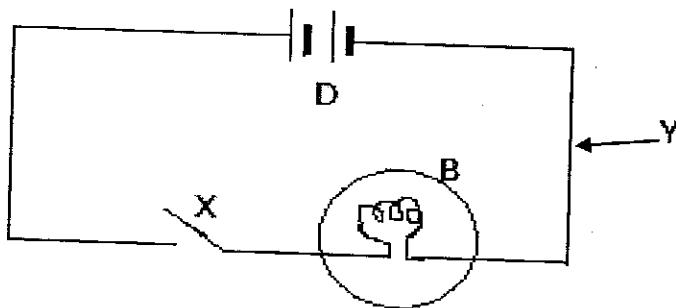
(i) Does this sample of gold sink or float if it is submerged into water?

(1mark)

(ii) Justify your answer

(1mark)

10) Study the diagram in the following figure then answer questions that follow



a) Name the component labelled **B**

(1mark)

b) (i) What will happen to **B** if **X** is closed?

(1mark)

(ii) Give a reason for your answer in 10)b)(i) above.

(1 mark)

c) What will happen to **B** if **x** is closed and the element **D** is replaced by another element like **B**?

(1mark)

11) (i) Choose the best answer from the following four choices:

Saving data for later use are

(1 mark)

- A. Input
- B. Distribution
- C. Storage
- D. Share

(ii) In order to save an existing document with a different name you need to use the..... (1mark)

12) Choose the best answer from the following four choices:

www.rra.gov.rwa is an example of (1mark)

- A) Website
- B) Email
- C) Xo Computer
- D) Laptop

For questions 13 to question 16, answer **True or False**

13) When using the write activity, the typed text is automatically saved when you close (1 mark)

14) You can find any kind of information using search engine..... (1 mark)

15) CDs as well as DVDs are optical storage devices..... (1 mark)

16) Scratch and turtle art are two popular programming languages for kids..... (1 mark)

17) is giving of objects human characteristics like movement, sound, saying etc. (1 mark)

18)is usually used to backup data. (1 mark)

- a) External hard disk
- b) Memory stick
- c) Memory card
- d) None of these

19) State any three geometrical shapes used in graphics. (3marks)

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

20) Explain the features of arithmetic operation. (2marks)

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

- 21) tool is used for painting and editing image colors. **(2marks)**
- 22) Name any three categories of blocks used in scratch. **(3marks)**
-
- 23) Move the turtle forward with the number of pixels entered. **(1mark)**

SECTION B: Attempt all questions

(50 marks)

For questions 24 to 32, choose the most correct answer by putting a tick ().

- 24) Which of the following animals gives birth? **(1 mark)**
- A. Bat
 - B. Fish
 - C. Toad
 - D. Spiny ant-eater
- 25) Among the following foods, which one can be considered as a balanced diet? **(1 mark)**
- A. Chips
 - B. Milk
 - C. Fried chicken
 - D. Green vegetables
- 26) Which of the following is **NOT** a condition necessary for germination? **(1 mark)**
- A. Warmth
 - B. Oxygen
 - C. Moisture
 - D. Soil
- 27) Which of the following is the most reason why oxygen is used in seed germination? **(1 mark)**
- A. It supports life
 - B. It is easily available
 - C. It supports burning
 - D. It is not poisonous

28) Which one of the following is found in the Dermis part of the skin? **(1 mark)**

- A. Urine
- B. Ureter
- C. Epidermis
- D. Sweat gland.

29) Which one of the following represents the correct order of foetal development? **(1 mark)**

- A. Embryo → Zygote → Foetus → Baby
- B. Foetus → Embryo → Zygote → Baby
- C. Zygote → Embryo → Foetus → Baby
- D. Zygote → Foetus → Embryo → Baby

30) Which type of erosion occurs mainly on steep slopes? **(1 mark)**

- A. Gully erosion
- B. Sheet erosion
- C. Rill erosion
- D. Splash erosion

31) Which of the following vitamins is responsible for good eye sight? **(1 mark)**

- A. Vitamin D
- B. Vitamin C
- C. Vitamin B
- D. Vitamin A

32) Our body needs to be repaired after injuries. The best foods to build and repair the body are: **(1 mark)**

- A. Millet, oranges, termites
- B. Peas, Cassava, groundnuts
- C. Fish, beans, Green vegetables
- D. Wheat, Milk, Maize.

- 33) Which of the following is a fact about HIV and AIDS? **(1 mark)**
- A. People living with HIV and AIDS are going to die soon.
 - B. HIV and AIDS is a curse from God.
 - C. HIV is got through sexual intercourse.
 - D. People living with HIV and AIDS are advised to eat small amounts of food at a time.
- 34) and are not part of the alimentary canal but they play a role in the digestion of food **(2 marks)**
- 35) a) The fusion of male and female reproductive cells forms **(1 mark)**
- b) List down at least two functions of the placenta. **(2 marks)**
- (i).....
 - (ii).....
- 36) a) The reproductive part of a plant is the **(1 mark)**
- b) In a flower, the male sex cells are known as while the female sex cells are known as **(2 marks)**
- From Question 37 to 41, answer **TRUE** or **FALSE**
- 37) Proteins are for growth and repair; they should therefore be given to children. **(1 mark)**
- 38) Glucose is used to provide energy during exercise; it should not be given to young children.... **(1 mark)**
- 39) The circulatory system consists of the heart and blood vessels. **(1 mark)**
- 40) HIV can be transmitted through blood when people share sharp instruments. **(1 mark)**
- 41) Mosquitoes cause malaria.... **(1 mark)**

42) List four major functions of the skeleton.

(4 marks)

(a)

(b)

(c)

(d)

43) Give five uses of water.

(5 marks)

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

44) Mention 5 ways in which plants are important to humans.

(5 marks)

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

45) a) Pollution is:

(1 mark)

.....
.....

b) What are common sources of air pollution?

(2 marks)

.....
.....

46) Give at least two reasons why plants and animals are classified
as living things.

(2 marks)

(i).....

(ii).....

47) Match the items in list **A** with their functions in list **B**.

(4 marks)

List A	List B
a. Red cells	1. Stops breeding when the skin is cut
b. Arteries	2. Carry oxygen around the body
c. Valves	3. Carry blood away from the body
d. Platelets	4. Prevent back flow of blood in veins

48) Why is immunization of children carried out free of charge in Rwanda?

(1 mark)

49) Why should young girls avoid getting pregnant?

(3 marks)

**SCIENCE AND ELEMENTARY
TECHNOLOGY**

PSET

13/11/2018 9AM -11AM



Pupil's complete index number

<i>Province/ City</i>	<i>District</i>	<i>Sector</i>	<i>School</i>	<i>Pupil</i>	<i>Year</i>
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Pupil's names

Surname:

Other names:

NB: PUPIL'S INDEX NUMBER AND NAMES **MUST** BE WRITTEN AS THEY APPEAR ON THE REGISTRATION FORM.

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2018

SCIENCE AND ELEMENTARY TECHNOLOGY

Duration: Two hours

Marks: /100

INSTRUCTIONS

- 1) Do not open this question paper until you are told to do so.
- 2) *This paper consists of 12 pages and 37 questions. Before starting, check if all pages and all questions are there and are arranged in ascending order.*
- 3) This paper has **two sections: A and B**.
- 4) Questions in both sections are compulsory and must be answered as instructed.

- 5) Read each question carefully before answering it.
- 6) Answer the questions in the space provided in this question paper.
- 7) You must use a **blue or black** pen and a **pencil** for drawing.

SECTION A: ATTEMPT ALL QUESTIONS (50 MARKS)

1) State any one form of:

(a) energy (1mark)

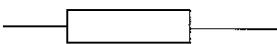
(b) renewable energy source..... (1mark)

2) Complete these sentences

(a) The area of a magnet where the magnetic force is strongest is called the magnetic (1mark)

(b) An instrument which uses magnets to show directions is known as (1mark)

3) Draw a line from each circuit symbol and link it to the electrical component it represents

Circuit symbol	Electrical Component
	Resistor
	Dry cell
	Switch

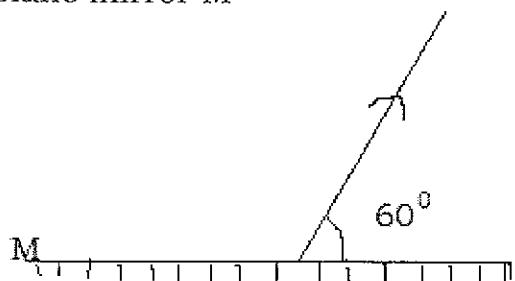
(3marks)

4) (a) Use the term refraction of light or reflection of light to answer the following question.

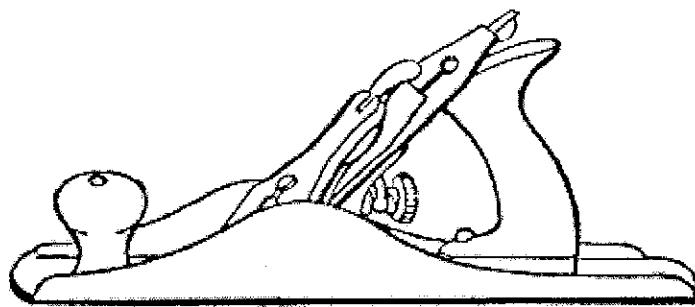
The phenomenon by which the incident light falling on a surface and it is then sent back into the same medium is known as

..... (1mark)

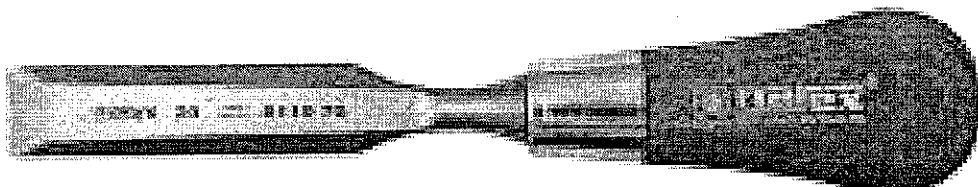
- (b) The diagram below, not drawn to scale shows a reflected ray of light on a plane mirror M



- (i) Use this diagram to draw the normal line to the mirror passing through the point of incidence.....(1mark)
- (ii) Find the value of the angle of incidence.....
.....(1mark)
- (iii) Draw an incident ray on the same diagram.....(1mark)
- 5) Name any:
(a) agricultural tool.....(1mark)
- (b) danger of the misuse of agricultural tools.
.....(1mark)
- 6) Name the carpentry tools in (a) and (b) below:



- (a).....(1mark)



(b) (1mark)

(c) What is the “spirit level tool” used for?

.....(1mark)

7) Write any two masonry tools.

(a) (1mark)

(b) (1mark)

8) Mention any two materials used to make toys

(a)..... (1mark)

(b)..... (1mark)

9) (a) The person who repairs machines is called:

.....(1mark)

(b) The person who uses a tool known as anvil is called :

.....(1mark)

10) Use **True** or **False** to answer the following :

(a) A screw driver isn't an example of a simple machine.

.....(1mark)

(b) For a lever to be a first class lever, the fulcrum needs to be

between the load and the effort.....(1mark)

(c) A simple machine is a tool that makes the work easier.

.....(1mark)

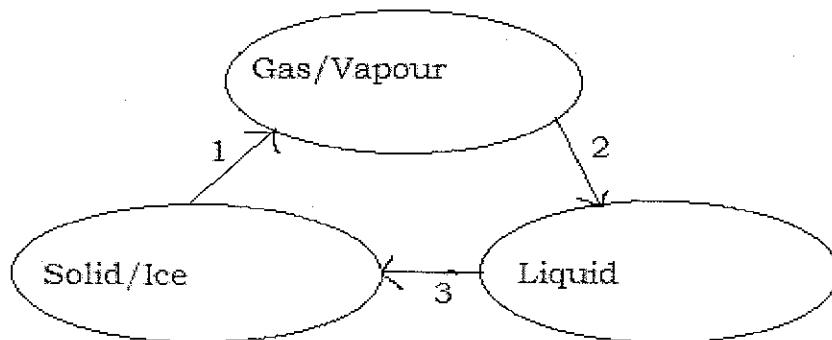
11) Calculate the relative density of each substance and complete the

table given below.

(2 marks)

Material	Density in kg/m ³	Relative density
water	1 000	
gold	19 320	

12) Name the different phenomena of water changes shown in the diagram below.



1)..... (1mark)

2)..... (1mark)

3)..... (1mark)

13) The physical parts of a computer are called (1mark)

14) A small picture that represents a folder, program or other things

is called: (1mark)

15) If you a document from the journal, it will be

completely lost. (1mark)

16) The activity you are working on is automatically saved and can be

accessed from the (1mark)

17) Name three ways in which you can start using the write activity.

- (a)..... (1mark)
(b)..... (1mark)
(c)..... (1mark)

18) What do the following terms refer to as used in scratch?

- (a)Sprite..... (1mark)
(b)Animation (1mark)

19) List any two popular programming languages for kids.

- (a)..... (1mark)
(b),..... (1mark)

20) What is the use of Paint activity?..... (1mark)

.....

21) List four functions of scratch sound editor.

- a)..... (1mark)
b)..... (1mark)
c)..... (1mark)
d)..... (1mark)

22) What is a search engine? (2marks)

.....

23) Explain the uses of the following commands.

- (a) Back (1mark)
(b) Left..... (1mark)

SECTION B: ANSWER ALL QUESTIONS (50 Marks)

24) (a) The characteristics for Movement is also called:

..... (1mark)

(b) Give four main reasons why animals move.

- (i) (1mark)
- (ii) (1mark)
- (iii) (1mark)
- (iv) (1mark)

25) Using an arrow (→), match each animal in A with the correct group to which it belongs in B.

A (Animal)	B (Group)
Chameleon	Mammal
Toad	Reptile
Ostrich	Birds
Bat	Amphibian

(4marks)

26) List down two similarities between plants and animals.

- (a)..... (1mark)
- (b)..... (1mark)

27) (a) Look at the crossword puzzle below and find at least four parts of a flowering plant and list them.

S	O	V	U	L	E
O	H	R	S	Q	P
V	C	O	P	R	E
A	T	O	O	D	T
R	P	T	A	T	A
Y	S	B	Z	C	L

- (i)..... (1mark)
- (ii)..... (1mark)
- (iii)..... (1mark)

(b) What would happen to plants if there were no insects?..... (1mark)

28) A farmer cuts down a forest to grow potatoes.

(a) Do you agree with his action?..... **(1mark)**

(b) If Yes give reasons to support your answer.

.....

(2marks)

If No, support your answer.

.....

.....

29) Match using an arrow, the items in Column A against those in Column B. **(4marks)**

Column A	Column B
1. Sepal	(a) Female reproductive part
2. Petal	(b) Protect the inner part of the flower
3. Stamen	(c) Attract insects
4. Carpel	(d) Male reproductive parts
	(e) Receive pollen grains

30) Complete the table below.

(3marks)

Parts of the Circulatory System	Function
1. Veins	
2. Heart	
3. Arteries	

31)(a) Name the two types of Pollination in Flowering plants.

(i) **(1mark)**

(ii) **(1mark)**

(b) Write down any two agents of Pollination.

(i) (1mark)

(ii) (1mark)

32) (a) Give two types of germination.

(i) (1mark)

(ii) (1mark)

(b) Apart from Moisture, state any other condition necessary
for seed germination..... (1mark)

33) (a) Name two natural resources in the environment that enable green
plants to make their food.

(i) (1mark)

(ii) (1mark)

(b) What is the name of the process in (a) above? (1mark)

.....
(c) What gas is given off during this process? (1mark)

34) (a) Which type of blood vessels return blood to the heart?

.....(1mark)

(b) What is the function of valves in blood vessels during blood
circulation ? (1mark)

(c) What type of blood is carried by most blood vessels with valves?

..... (1mark)

(d) Give any one waste material carried by blood. (1mark)

35) (a) Which organ removes urine from the body?.....(1mark)

(b) To which body system does the organ that removes urine from the body belong?.....(1mark)

(c) Where is urine collected before it is removed from the body?
.....(1mark)

36) (a) Name the germ that causes HIV/AIDS.....(1mark)

(b) Apart from having sex with an infected person, write down any other way in which one can get the germ that causes HIV/AIDS.

.....
.....

(1mark)

(c) State the name of the insect that transmits malaria parasite from one person to another.....(1mark)

37) Which part of the body is affected by each of the following diseases?

(a) Bilharzia.....(1mark)

(b) Scabies.....(1mark)

(c) Trachoma(1mark)

(d) AIDS.....(1mark)

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**Science and Elementary
Technology**

PSET

04 / 11 / 2015 09: 00-11: 00 AM



Pupil's complete index number

Province/City District Sector School Pupil

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Pupil's names

Surname:

Other names:

**NB: PUPIL'S INDEX NUMBER AND NAMES
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THE REGISTRATION FORM.**

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2015

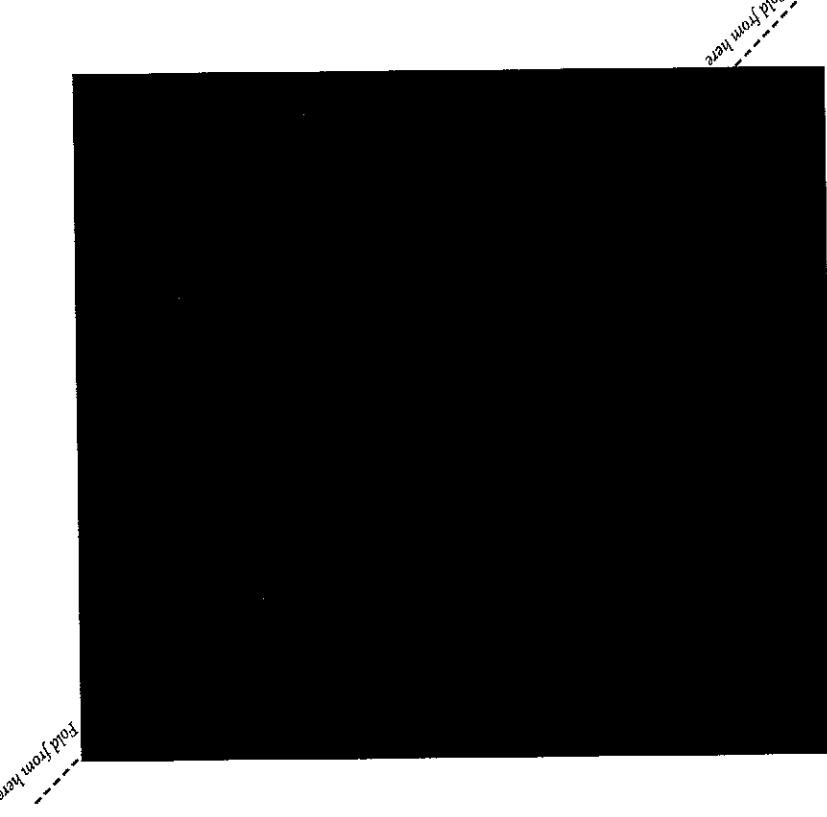
SCIENCE AND ELEMENTARY TECHNOLOGY

Duration : Two hours

Marks : /100

INSTRUCTIONS

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SECTION A: ANSWER ALL QUESTIONS.**(50MARKS)**1) Name any one (a) carpentry tool **(1mark)**(b) Agricultural tool **(1mark)**2) (a) Mention one danger of stagnant water. **(1mark)**

.....

.....

(b) What is the use of terraces? **(1mark)**

.....

.....

3) (a) What is a simple machine? **(1mark)**

.....

.....

(b) Name one type of a simple machine.

.....

(1mark)

4) (a) Give one source of artificial light

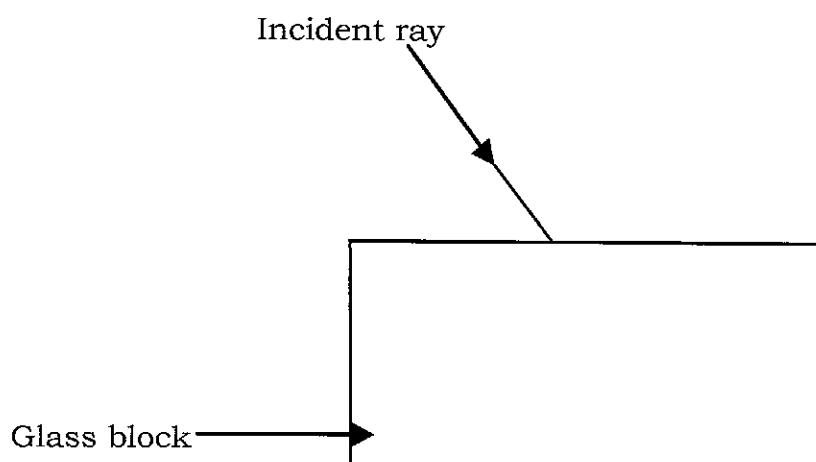
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(1mark)(b) Which type of surface reflects light? **(1mark)**

.....

.....

5) The diagram below shows a ray of light travelling from air through a glass prism.



Complete the path of the light through the glass block.

(2marks)

6) When is the solar eclipse formed?

(2marks)

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

7) Give two types of substances that burn.

(2marks)

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

8) (a) Which form of energy helps us to see objects?

(1mark)

(b) A force of 50N pulls a box 3m in the direction of the force.

Calculate the work done.

(1mark)

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

9) Water can exist in three states. At room temperature water is in a

liquid state. Write two other states of water.

(2marks)

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

10) Explain how water at room temperature changes to ice.

(2marks)

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

11) The mass of a body is 60g and its volume is 15cm³. Calculate

the density of the body.

(2marks)

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

12) The table below shows densities of some materials.

Material	Densities kg/m ³
Copper	8,900
Water	1,000
White spirit	850

(a) Which material sinks into water?

.....(1mark)

(b) Which material does not sink into water?

.....(1mark)

13) Name any two sources of electricity used to operate radios in Rwanda. (2marks)

.....
.....

14) Name any two materials used to distribute electricity from hydro power stations to homes, industries, schools and shops. (2marks)

.....
.....

15) Mention any two electrical machines used in homes. (2marks)

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

16) If a person touches a bare wire carrying electricity in a house, what is the quickest way to save this person? (2marks)

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

17) Give one way of producing sound. (2marks)

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

18) Give two ways of storing sound.

(2marks)

(a)

(b)

19) Why is distant sound heard clearly at night than during the day?

(2marks)

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

20) By which method does heat from the sun reach the earth?

(2marks)

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

21) Why do people wear sweaters on a cold day?

(2marks)

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

22) Why are saucepans good for cooking food?

(2marks)

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

23) Complete the following sentence:

Like poles of a magnet **(1mark)**

and unlike poles of a magnet **(1mark)**

24) Fill in the missing words in the following sentence:

When a bar magnet is freely suspended in the air, it always faces
in direction .

(2marks)

25) Write one use of a magnet.

(2marks)

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

SECTION B: ANSWER ALL QUESTIONS. (50 MARKS)

26) Name at least two diseases associated with water pollution.

- (a) **(1mark)**
(b) **(1mark)**

27) (a) What do the words HIV and AIDS stand for?

HIV: **(1mark)**

AIDS: **(1mark)**

(b) How can we avoid contracting HIV and AIDS? **(3marks)**

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

28) Write down any three methods of purifying water.

- (a) **(1mark)**
(b) **(1mark)**
(c) **(1mark)**

29) Some bones on a human being are longer than others.

Give three examples of such long bones.

- (a) **(1mark)**
(b) **(1mark)**
(c) **(1mark)**

30) (a) Give three reasons to explain why food should be cooked.

- (i) **(1mark)**
(ii) **(1mark)**
(iii) **(1mark)**

(b) What are final products of digestion of the following food substances?

- (i) Starch: **(1mark)**

(ii) Protein:

(1mark)

(iii) Fats:

(1mark)

31) (a) What are fertilizers? **(1mark)**

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

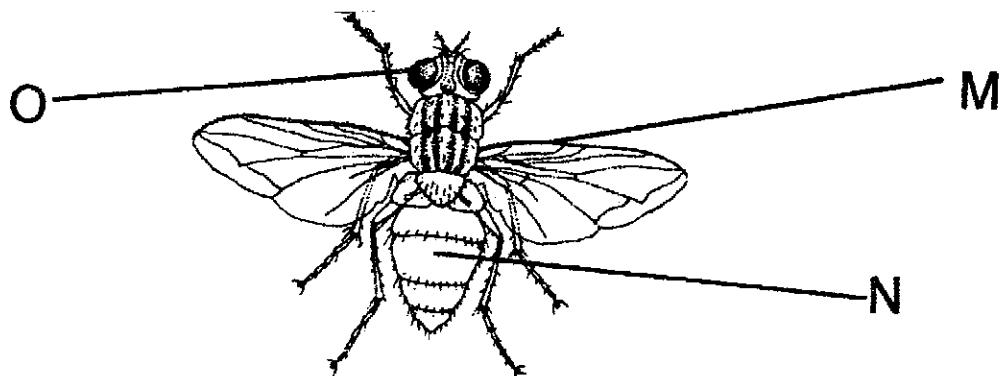
(b) Give the main types of fertilizers. **(2marks)**

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

32) Using an arrow, match items in group A with those of B in the table below. **(5marks)**

A	B
Heart	Sensory organ
Kidney	Memory
Skin	Carbon dioxide
Lungs	Circulation of blood
Brain	Urine

33) Study the housefly below and answer the questions that follow.



(a) How many body parts does this insect have?

..... **(1mark)**

(b) Name the parts marked:

M: **(1mark)**

N: **(1mark)**

(c) What is the use of the part marked O to the housefly?

..... **(1mark)**

(d) Where does a housefly lay its eggs?

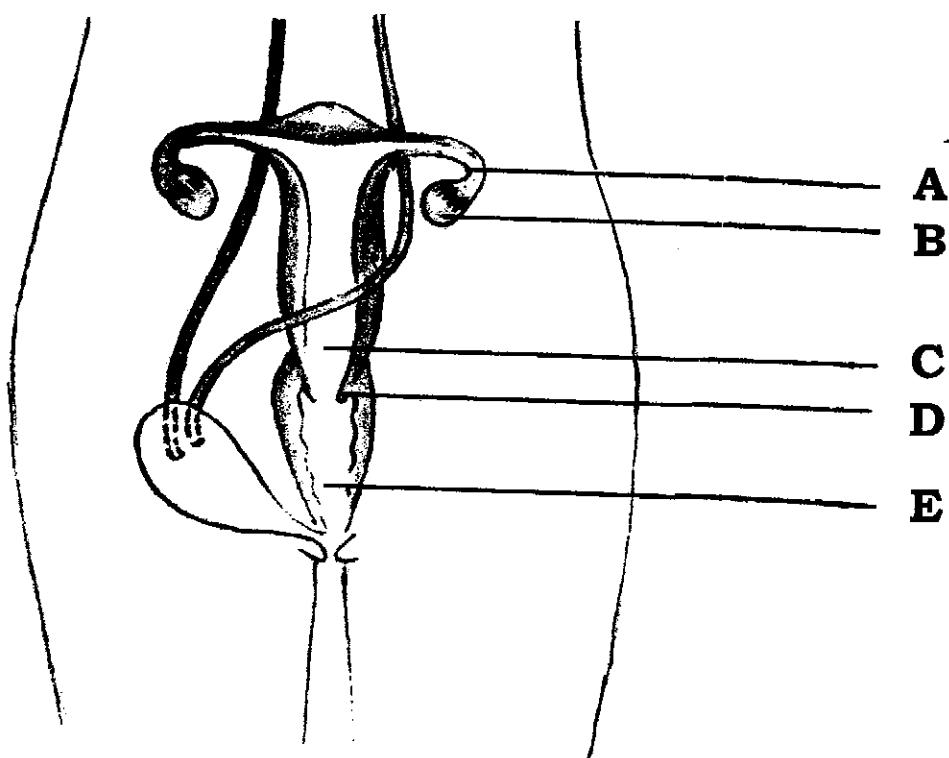
..... **(1mark)**

(e) How is this housefly dangerous to us?

.....

..... **(1mark)**

34) The diagram below shows the female reproductive system.



Name the parts marked A, B, C, D, and E.

A: **(1mark)**

B: **(1mark)**

C: **(1mark)**

D: **(1mark)**

E: **(1mark)**

35) The walls of the stomach produce chemical substances called gastric juice and hydrochloric acid. What is the use (function) of:

(a) Gastric juice?

.....

..... (2marks)

(b) Hydrochloric acid?

.....

..... (1mark)

36) (a) Name two things involved in sanitation or hygiene.

(i) (1mark)

(ii) (1mark)

(b) Latrines should be constructed at least ten metres from the living house. Give two reasons for this.

(i) (1mark)

(ii) (1mark)

37) (a) In the spaces below draw an example of:

(i) A simple leaf (1mark)

(ii) compound leaf.

(1mark)

(b) (i) State any two uses of leaves to plants.

(2marks)

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

(ii) State any one use of leaves to us.

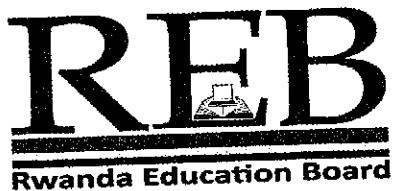
(1mark)

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**SCIENCE AND ELEMENTARY
TECHNOLOGY
PSET**

22/10/2014 9 a.m-11a.m



Pupil's complete index number

Province/City	District	Sector	School	Pupil
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Pupil's names

Surname:

Other Names:

**PUPIL'S INDEX NUMBER AND NAMES
MUST BE WRITTEN AS THEY APPEAR
ON THE REGISTRATION FORM.**

PRIMARY LEAVING NATIONAL EXAMINATIONS, 2014

Science and Elementary Technology

Duration: Two hours

Marks:

/100

INSTRUCTIONS

- 1) Don't open this question paper until you are told to do so.
- 2) This paper consists of 12 pages and 41 questions. Before starting, check if all pages and all questions are there and are arranged in order.
- 3) This paper has Two sections: **A** and **B**.
- 4) Questions in both sections are compulsory and must be answered as instructed.
- 5) Read each question carefully before answering it.
- 6) Answer the questions in the space provided on this question paper.
- 7) You must use a blue or black pen and a pencil for drawing.

SECTION A : ATTEMPT ALL QUESTIONS. (50 MARKS)

1.(a) Why is a hammer good for fixing together pieces of wood with a nail?

.....

(1mark)

(b) Why is a saw suitable tool for cutting wood?

.....

(1mark)

2.(a) One way of protecting the environment from rain water is:

.....

(1mark)

(b) One danger of stagnant water is:

.....

(1mark)

3. Complete the following sentences .

(a) An object which does not allow all the light to pass through it is called

.....

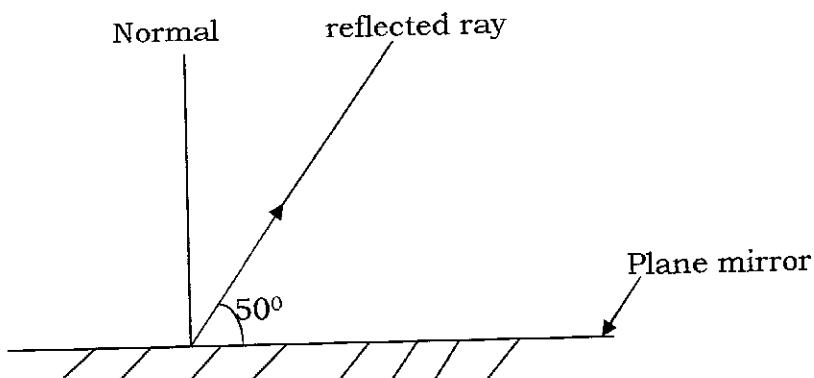
(1mark)

(b) The main source of natural light on earth is:

.....

(1mark)

4.The diagram below shows a reflected ray of light and a plane mirror .



(a)Draw an incident ray on the diagram.

(1mark)

(b) What is the size of the angle of reflection ?

.....

(1mark)

5.(a) When is the lunar eclipse formed ?

.....

(1mark)

(b) An umbra shadow is the

.....

(1mark)

6.(a) Give an example of a solid fuel.

.....

(1mark)

(b) Explain why although Petrol is a useful liquid fuel it can be dangerous if it is carelessly handled.

..... (1mark)

7. A dry cell stores chemical energy. In a torch, the chemical energy from the cell is converted into other energies. Name these energies.

(a) (1mark)

(b) (1mark)

(c) (1mark)

8.(a) Write one difference between a metal and a non - metal.

..... (1mark)

(b) Why are electric wires made of copper?

9. Air of the atmosphere is composed of many gases.

(a) Which of these gases supports burning of wood?

..... (1mark)

(b) Which gas puts off fire from burning wood?

10.(a) A stone sinks into water because..... (1mark)

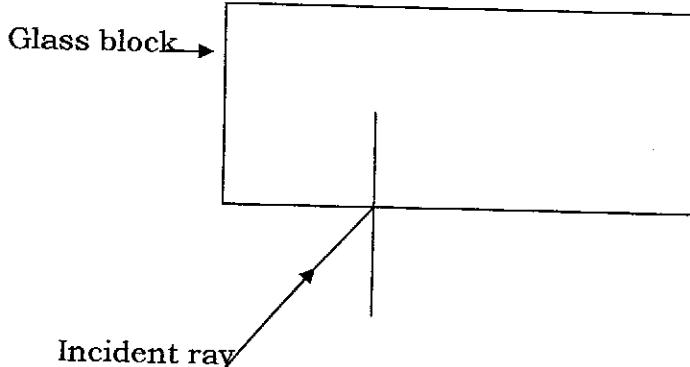
..... (1mark)

(b) What is the meaning of: relative density of a substance?

..... (1mark)

11. Complete the diagram below which shows a glass block and incident ray.

(1mark)



12.(a) By which method does heat travel through a liquid ?

..... (1mark)

(b) Which liquid is a good conductor of heat?

.....

(1mark)

13. Draw a simple electric circuit composed of: one dry cell, connecting wires , a switch and a lamp bulb.

(2 marks)

14. In the distribution of electricity from the main source , the following materials are used: poles , transformers and cables(electric wires).

(a) What is the use of a transformer?

.....

(1mark)

(b) Why are cables (electric wires) used?

.....

(1mark)

15. Give two uses of electricity.

(a)

(1mark)

(b)

(1mark)

16. It is bad to touch a switch with wet hands because

.....

(2marks)

17. Give an example to prove that

(a) sound travels through water.

.....

(1mark)

(b) sound does not travel through very hard surfaces.

.....

(1mark)

18.(a) Can sound be stored ?

.....

(1mark)

(b) Give an example to support your answer in (a) above .

.....

(1mark)

19 . Why is a wheelbarrow used to carry heavy weights ? **(2marks)**

.....

20 . Name the source of clean water in your home .

.....

(1mark)

21. (a) Lake water is not clean for drinking because.....

.....

(1mark)

(b) How is lake water made clean for drinking ?

.....

(1mark)

(c) Name one disease caused by drinking dirty water (ie lake water, stagnant water, etc).

.....

(1mark)

22. Draw a diagram to represent water cycle. Start from lake water.**(2marks)**

23.(a) What is a magnet ?

..... **(1mark)**

(b) Why is one end of a bar magnet called a north pole and the other a south pole?

.....

(1mark)

24. The diagram below represents a bar magnet . Draw magnetic lines of force around it. **(2marks)**



25. Give two uses of magnets.
- (a)..... **(1mark)**
- (b)..... **(1mark)**

SECTION B :Attempt all questions (50 marks)

26. Three respiratory diseases are:

- (a)..... **(1mark)**
- (b)..... **(1mark)**
- (c)..... **(1mark)**

27.(a) Give any three uses of food to man.

- (i) **(1mark)**
- (ii)..... **(1mark)**
- (iii)..... **(1mark)**

(b) The best food for a baby of less than eight months is:.....

..... **(1mark)**

28 .(a) The two types of germination are:

- (i)..... **(1mark)**
- (ii)..... **(1mark)**

(b) For a bean seed to germinate, it must be mature and healthy.
Mention the other necessary conditions for the seed to
germinate.

(3marks)

.....
.....

29. The table below shows foodstuffs prepared by different families.
Study it and answer the questions that follow.

Family A	Family B	Family C	Family D
Bananas	Cassava	Potatoes	Millet
Meat	Beans	Posho	Fish
Beans	Posho	Cassava	Meat
Yams	Yams	Yams	Mangoes

(a) Which family has proteins but lacks fats?..... **(1mark)**

(b) What food nutrients are lacking in family A?.....

..... **(1mark)**

(c) Which family has a balanced diet?..... **(1mark)**

30. One reason which shows that animals and plants depend on
each other is that

..... **(2marks)**
31. Give the differences between the life history of a cockroach and
that of a housefly

.....

..... **(2marks)**

32. Give the difference between the way man and insects breathe.

.....

..... **(2marks)**

33. Study the table below and answer the questions that follow.

A	B
Tilapia	Rat
Frog	Goat
Crocodile	Lion
Hen	Whale

a) What is the similarity in the way the animals in list A reproduce?

..... (1mark)

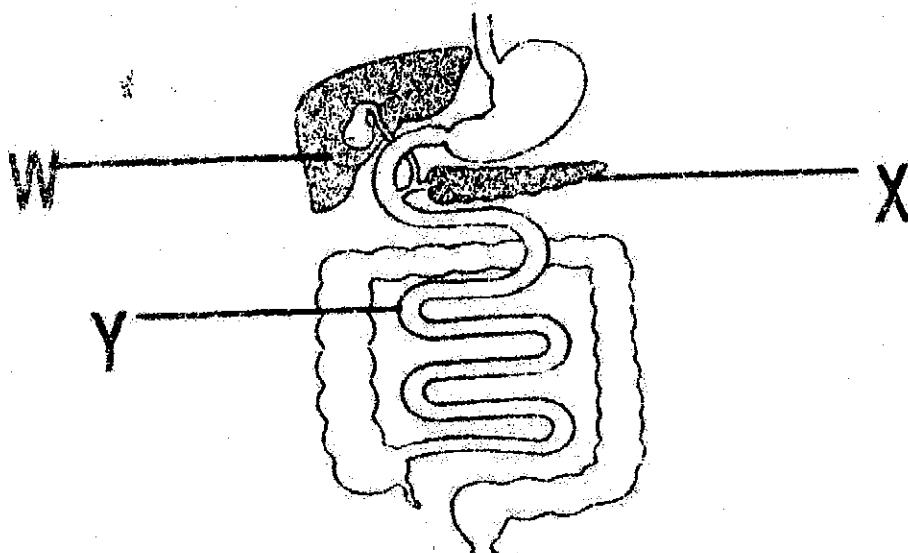
b) The animals in list B belong to a group of animals called:

..... (1mark)

c) In what way is the tilapia in list A similar to the whale in List B?

..... (1mark)

34. The diagram below shows part of the alimentary canal of a human being. Use it to answer the following questions.



a) Name parts:

X..... (1mark)

Y..... **(1mark)**

W..... **(1mark)**

b) A process that takes place in the part marked Y is:.....

..... **(1mark)**

c) One use of the part marked X is:

..... **(1mark)**

35. Give two ways of preventing and controlling each of the following diseases without using drugs.

a) AIDS:
(i)..... **(1mark)**

(ii)..... **(1mark)**

b) Malaria
(i)..... **(1mark)**

(ii)..... **(1mark)**

36.a) An earthworm is called an invertebrate because.....

..... **(1mark)**

b) One main use of a human skeleton is:

..... **(1mark)**

37.a) All arteries carry oxygenated blood except.....

..... **(1mark)**

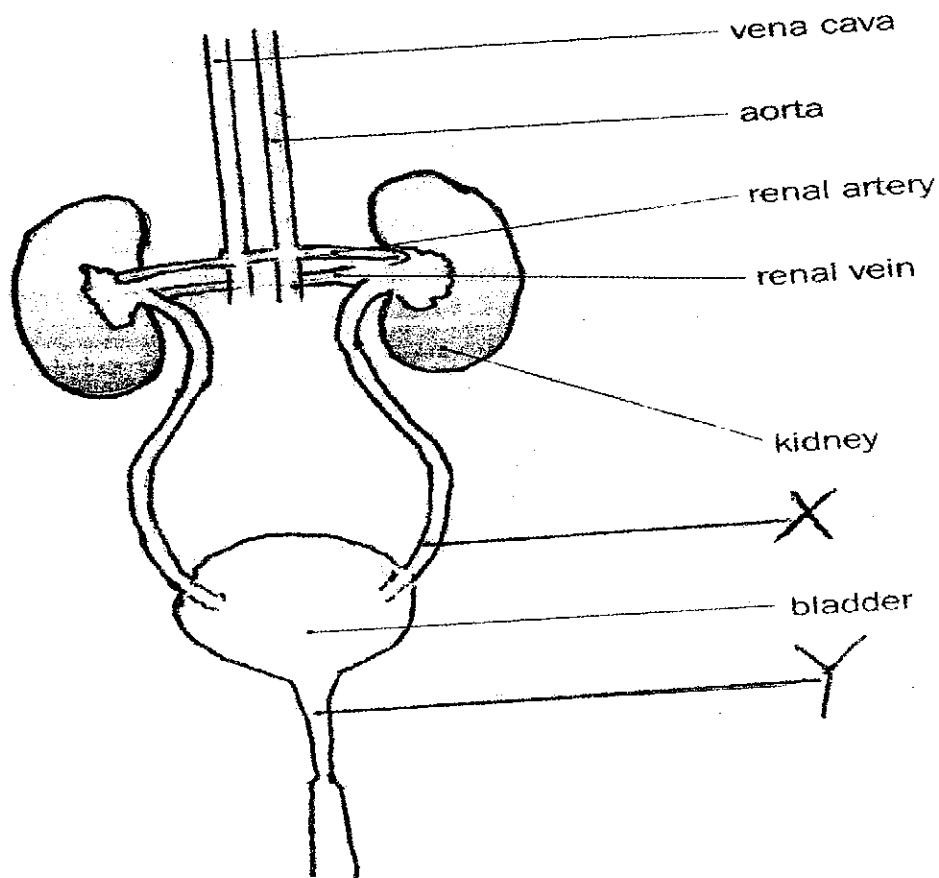
b) All veins carry deoxygenated blood except.....

..... **(1mark)**

38. The structures on the leaf of a plant that help in the process of transportation are:.....

..... **(1mark)**

39. The diagram below is a human urinary system.



- a) Name the parts labelled X and Y
X is: (1mark)
Y is: (1mark)
- b) The bladder is used for: (1mark)
- c)
What needs to be done in order to have a good urinary system?
..... (2marks)

40. a) STDs in full is: (2marks)
- b) Two examples of STDs are:
(i). (1mark)
(ii). (1mark)

41. Knowledge of science and technology helps human beings in the following ways:

- a)..... **(1mark)**
- b)..... **(1mark)**
- c)..... **(1mark)**

**SCIENCE AND ELEMENTARY
TECHNOLOGY
PSET**

23/10/2013 9.00 a.m-11.00 a.m

Pupils complete index number

Province/City district Sector school Pupil

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Pupil's names

Surname:.....

Other names.....

REPUBLIC OF RWANDA



RWANDA EDUCATION BOARD

PRIMARY LEAVING NATIONAL EXAMINATIONS 2013

Science and Elementary Technology

Duration: Two hours

Marks:

/100

INSTRUCTIONS

- 1) Don't open this question paper until you are told to do so.
- 2) This paper consists of 12 pages and 37 questions. Before starting, verify if all pages and all questions are there and are arranged in order.
- 3) Write your complete index number and names in full (as written on your registration form) in the spaces provided above.
- 4) This paper has Two sections: A and B
- 5) Questions in both sections are compulsory and must be answered as instructed.
- 6) Read each question carefully before answering it.
- 7) Answer the questions in the space provided on this question paper.

ANSWER ALL QUESTIONS (100 marks)

SECTION A (50 marks)

1. The tool below is used in mechanics .



This tool is calledand it is used toorthe bolts. **(2marks)**

2. Why does a piece of dry wood float on water while an iron nail sinks to the bottom of water? **(2marks)**

.....
.....

3. Two ways through which lake water is made dirty are:

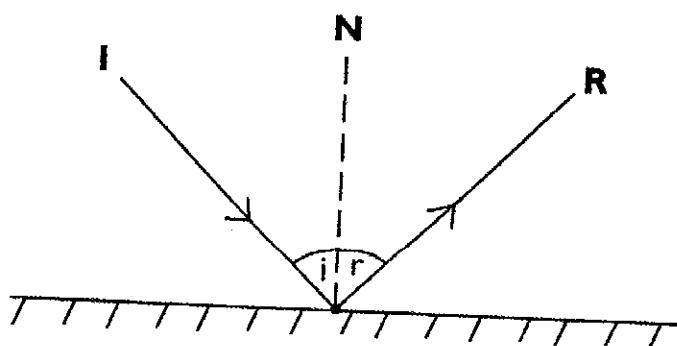
a)..... **(1mark)**

b) **(1mark)**

4. The moon light at night comes from **(2marks)**

.....
.....

5. The figure below shows a ray of light being reflected by a plane mirror.



Which is

a) The incident ray?

..... (1mark)

b) The angle of reflection?

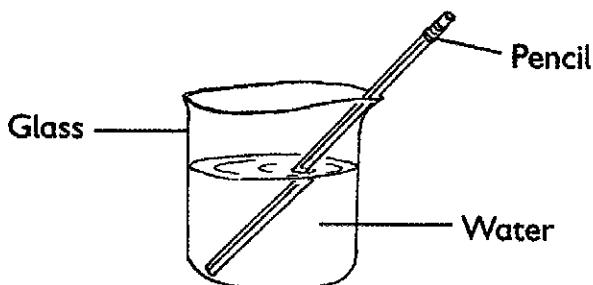
..... (1mark)

6. Use the figure in question 5 above and state the relation between angle i and r.

(2marks)

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

7. A pencil is put in water . See figure below. The pencil appears bent.



a) How does the pencil appear when it is removed from the water? (1mark)

.....

b) The pencil inside water appears as if it is bent because

.....

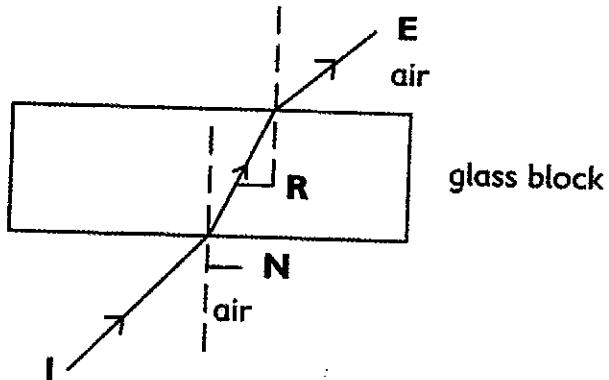
(1mark)

8. Light rays bend or change direction when they move from water into the air. This bending of light rays as they move from water to the air is called of light. The speed

of light in is not the same as the speed of light in air.

(2marks)

9. The figure below shows a ray of light travelling from the air through a glass block and then to the air.

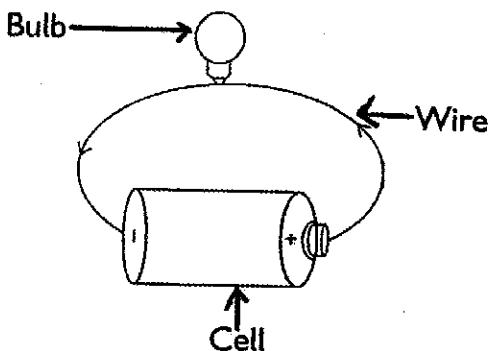


The name of

a) ray **R** is (1mark)

b) ray **E** is..... (1mark)

10. The figure below shows a complete electric circuit.



What is the use of :

a) the cell? (1mark)

b) the wire? (1mark)

11. Mention any two dangers electricity can cause in homes.

a)

(1mark)

b)

1mark)

12. In a house which has electricity you can find switches and sockets fixed on walls. What is the use of :

a) switches ?

.....

(1mark)

b) sockets ?

.....

(1mark)

13. Mention any two ways to avoid dangers caused by electricity.

a) (1mark)

b) (1mark)

14. Electricity produced by running water is called

..... (2marks)

15. The type of energy that enables us to hear is called

.....; (1mark)

this energy is produced by.....bodies. (1mark)

16. Does sound travel through

a) liquids ?..... (1mark)

b) vacuum ? (1mark)

17. Two reasons that explain why musical sounds and other noises from far distance sources heard more at night than during the day time are:

(2marks)

.....

.....

.....

18. Water can exist in three states. How can you change water from a liquid to a gas state? **(2marks)**

.....

19. Read the following statements and write TRUE if it is correct and FALSE if it is wrong.

a) A liquid has a fixed volume. **(1mark)**

b) A gas has a fixed volume. **(1mark)**

20. Two methods of heat transfer from a hot body to a cold place are:

a) **(1mark)**

b) **(1mark)**

21. a) The method of heat transfer from the sun to the earth is :

..... **(1mark)**

b) When it is a cold day or cold night you feel cold because your body is losing heat. The heat transfer method by which your body loses heat is called

..... **(1mark)**

22. We cook food in saucepans which are made of aluminium metal because

..... **(2marks)**

23. Heat from the sun is useful and we do not pay money when we use it.

Why is it good to dry maize in sunshine before storing them? **(2marks)**

.....

24. a) Complete this equation : MASS = DENSITY X **(1mark)**

b) The unit of density is **(1mark)**

25. The mass of a solid is 270 g and its volume is 300 cm³. Calculate the density of the solid. **(2marks)**

.....

.....

SECTION B : Answer All questions

26. a) A germ is..... **(1 mark)**
- b) Name any two types of germs. **(2 marks)**
- i.....
- ii.....
- c) Three ways in which germs can be controlled are: **(3 marks)**
- i.....
- ii.....
- iii.....
27. a) Give any three uses of food to living organisms. **(3 marks)**
- i.....
- ii.....
- iii.....
- b)
- i. A balanced diet is **(1 mark)**
-
- ii. State components of a balanced diet. **(3 marks)**
-
-
-
28. a) Two functions (uses) of proteins to living organisms are: **(2 marks)**
- i.....
- ii.....
- b) Why should children have more proteins than adults? **(1 mark)**
-
-

29. The diagram below shows different animals.



a) In which ways are animals A, B and C similar? **(1 mark)**

.....
.....

b) How is reproduction of animal C different from that of other animals? **(1 mark)**

.....

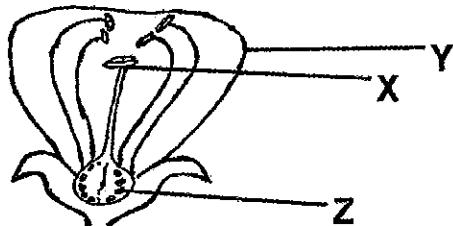
c) Animal A belongs to a class of animals called **(1 mark)**

.....

d) Animal D protects itself against enemies by..... **(1 mark)**

.....

30. The diagram below is of a flower.



a) The part labeled X is called..... **(1 mark)**

b) The use of the part labeled Y to the flower is:

.....

c) What does the part labeled Z become after fertilization?

.....

(1 mark)

(1 mark)

31. a) What are Sexually Transmitted Diseases (STDs) ? **(1 mark)**

.....

b) Give any three examples of STDs. **(3 marks)**

i.....

ii.....

iii.....

c) One way in which STDs can be controlled is.....

.....

(1 mark)

32. a) What is the shape of the kidney?

.....

(1 mark)

b) Two main functions of a kidney are:

i.....

ii.....

33. Three ways in which health problems can be solved without the use of drugs are:

(3 marks)

a).....

b).....

c).....

34. a) The ear is used for.....

.....

(1 mark)

b) Three main parts of the ear are :

(3 marks)

i.

ii.

iii.

c) The part of the ear that is likely to be damaged if one uses a sharp object to clean it is

.....

(1 mark)

35. A man has the food named below to feed his family .Use the list to answer the questions below.

Mangoes, Beans, Rice, Potatoes, Green dodo.

a) His wife has anemia. Which food from the list would you advise her to eat?

(1 mark)

b) Give reasons for your answer above.

(1 mark)

.....
.....

c) This man's child has Kwashiorkor and advised to eat beans. Why?

(1 mark)

.....

36. Vertebrate animals have bony skeleton within their bodies.
Give any two uses of skeleton.

(2 marks)

i.....

ii.....

37. a) Give at least two secondary sexual characteristics that are similar to both boys and girls.

(2 marks)

i.....

ii.....

b) Give at least two different secondary sexual characteristics for :

i. boys. (2 marks)

.....

.....

ii. Girls. (2 marks)

.....

.....

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**ELEMENTARY SCIENCE AND
TECHNOLOGY**

PEST

07 NOV. 2012 9.00AM -11.00AM

REPUBLIC OF RWANDA



RWANDA EDUCATION BOARD (REB)

PRIMARY LEAVING NATIONAL EXAMINATIONS 2012

NOVEMBER 2012

ELEMENTARY SCIENCE AND TECHNOLOGY

DURATION: Two hours

Marks:

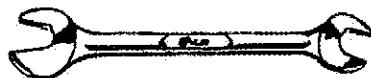
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Instructions

- In the space provided, write your index number and names in full as written on your registration form.
- Answer all questions.
- Write your answers in the space provided on your question paper.
- Read each question carefully before answering it.
- Do not make unnecessary changes.

SECTION A (50marks)

1. The tool below is used in mechanics.



(a) What is the name of the tool?

..... **(1mark)**

(b) This tool is used to

..... **(1mark)**

2. Running water on hillsides causes soil erosion. How can this erosion be prevented?

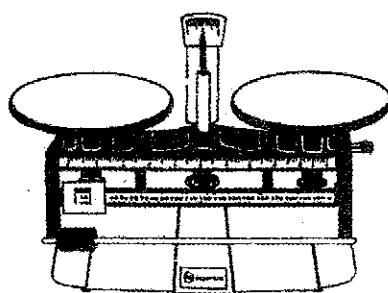
.....

(2marks)

3. Mention two dangers that stagnant water can cause. **(2marks)**

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

4. Below is an instrument used in everyday life.



(a) What is this instrument called? **(1mark)**

.....

(b) Which of the following quantities is this instrument used to measure: weight, mass, force of a body? **(1mark)**

.....

5. Given the following objects: wooden door, sunglasses, glass in a window. Which of them is?

(a) opaque? **(1mark)**

(b) Transparent? **(1mark)**

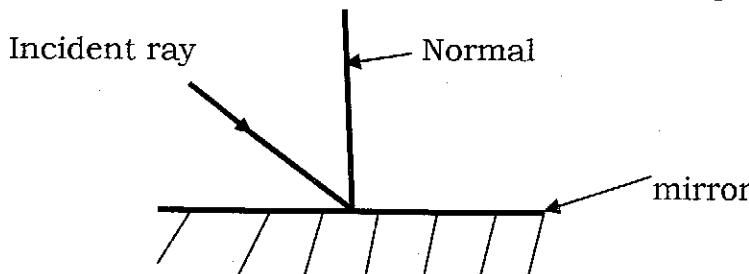
(c) translucent? **(1mark)**

6. The mass of a stone is 200g and its volume is 80 cm³. Calculate the density of the stone. **(2marks)**

.....

.....

7. The diagram below shows reflection of light from a plane mirror.



Complete the diagram and show: reflected ray, angle of incidence and the angle of reflection. **(3marks)**

8. Water exists in three states. What are the common names of these states? **(3marks)**

(a).....

(b).....

(c)

9. Mention two ways of making water from a lake safe for drinking. **(2marks)**

(a).....

(b).....

10. If you have some meat you want to keep for more days without getting spoilt, which two ways can you use to preserve it? **(2marks)**

(a)

(b).....

11. Which type of energy helps us to see objects and to read books? **(2marks)**

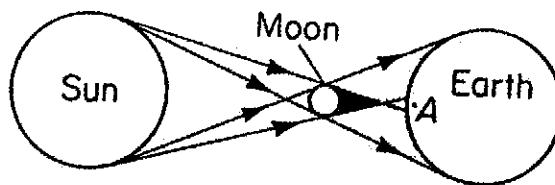
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12. (a) By which heat transfer method does heat from the sun reach the earth? **(1mark)**

(b) To boil water in a saucepan heat is applied underneath the saucepan. Which heat transfer method does the heat reach the water at the top in the saucepan?

.....**(1mark)**

13. Below is an eclipse of the sun by the moon. The tip of the umbra has failed to reach the earth's surface. What is the name of this type of eclipse? **(2marks)**



14. An echo is a property of sound called **(2marks)**

.....

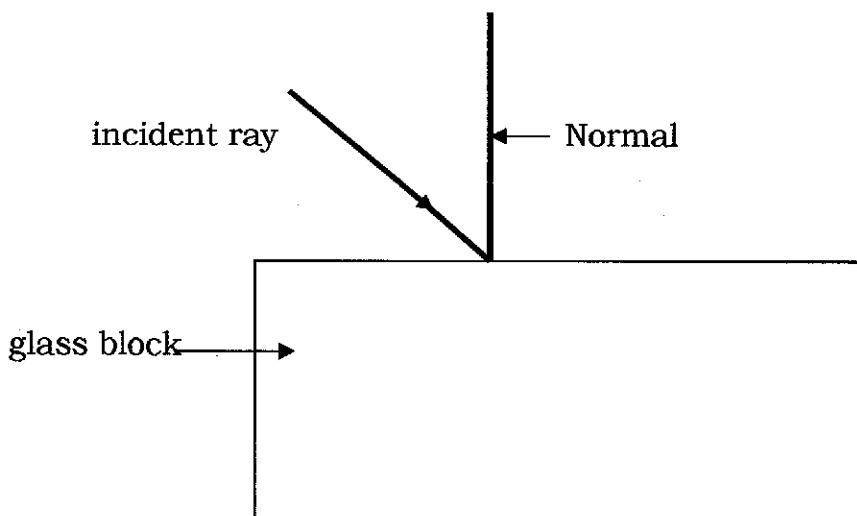
15. Modern technology has made it possible to store sound. Give two ways of storing sound. **(2marks)**

(a)

.....

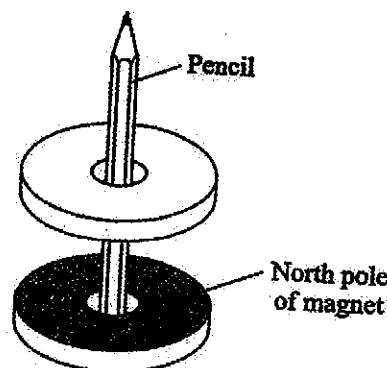
(b)

16. Below is a glass block and a light ray entering it. Complete the diagram to show the path of the ray through the glass block. Label emergent ray. **(3marks)**



17. A magnet strongly picks copper. Is this statement correct? **(2marks)**
-

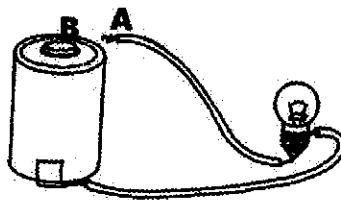
18. The diagram below shows two circular magnets.



Complete the following sentence : The top magnet floats above the bottom magnet because the two poles are facing each other and similar poles **(2marks)**

19. Suppose you dissolve salt in water, how can you get back the salt? **(3marks)**
-
-

20. The diagram below shows an electric lamp, connecting wires and a battery.



(a) Can the lamp indicated in the diagram give light?

..... (1mark)

(b) Explain your answer.

..... (2marks)

(c) What would you observe when the end of wire A is connected to the terminal B?

..... (1mark)

(d) What will happen if there are two lamps in the circuit and one battery?

..... (1mark)

21. Which different methods can you use to cook potatoes?

(2marks)

.....

SECTION B (50 marks)

22. a) A lung disease caused by bacteria is called.....

..... (1 mark)

b) In what ways is the housefly dangerous to people?

(1 mark)

.....

.....

c) State two diseases spread by the housefly to people. **(2 marks)**

.....
.....

23. a) The difference between AIDS and HIV is that **(1 mark)**

.....
.....

b) The main method through which AIDS can be spread is **(1 mark)**

.....

c) In what way is the spread of AIDS similar to that of gonorrhea? **(1 mark)**

.....

24. a) Three characteristics of birds are. **(3 marks)**

(i)

(ii)

(iii)

b) In what ways are birds similar to reptiles? **(1 mark)**

.....

c) A cow is called a ruminant because

..... **(1 mark)**

d) (i) Which category of animals carry their young ones in a pouch?

(1 mark)

(ii) Give one example of animals that carry their young ones in a pouch

(1 mark)

25. a) The part of the flower that receives pollen grains is

.....

(1 mark)

b) (i) The female part of a flower is called.....

(1 mark)

(ii) The parts that make up the female part of the flower are. **(3 marks)**

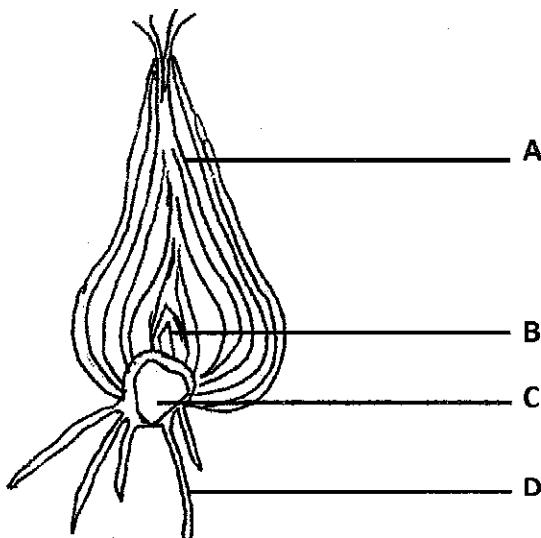
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.....
.....

26. a) Fill in the table below with three differences between insect and wind pollinated flowers. **(3 marks)**

Insect pollinated flowers	Wind pollinated flowers
(i)	
(ii)	
(iii)	

b) Fertilization is **(1 mark)**

27. The diagram below is of an Onion.



Name the parts A, B, C and D. **(4 marks)**

A

B

C

D

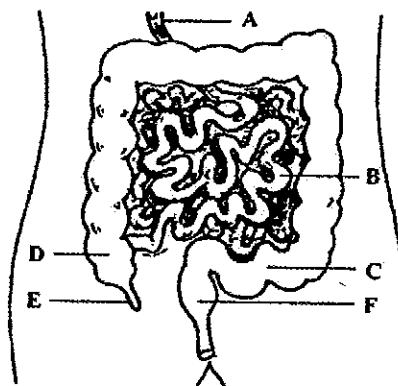
28. a) How is a stem useful to plants? **(2 marks)**

.....
.....

b) Besides carrying out photosynthesis, how else are leaves useful to plants?

(1 mark)

29. The diagram below shows the lower part of the alimentary canal. Use it to answer the questions that follow.



a) Name the parts marked A, B, C, D, E, F. **(3 marks)**

A

B

C

D

E

F

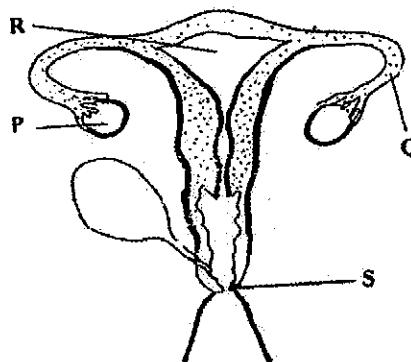
b) What important process takes place in part C? **(1 mark)**

.....

c) How is part F useful? **(1 mark)**

.....
.....

30. The diagram below shows the female reproductive organs.



a) Name the parts marked P, Q, R, S. **(4 marks)**

P

Q

R

S

b) What is the function of part P? **(1 mark)**

.....

c) Name at least one process that takes place in part R. **(1 mark)**

.....

d) What type of fertilization takes place in people? **(1 mark)**

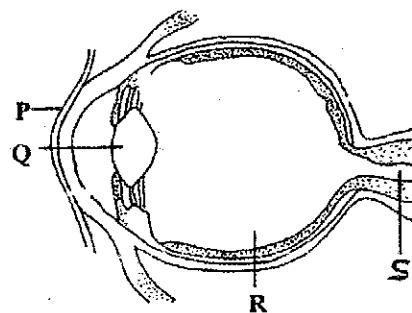
.....

e) How is such fertilization different from that in amphibians
(frog, toads, etc.)?

(2 marks)

.....
.....

31. The diagram below shows a human eye.



a) Name the parts labeled P, Q, R, S.

(4 marks)

P

Q

R

S

b) What is the function (use) of part Q?

(1 mark)

.....

c) Which part of the eye is sensitive to light rays and so send messages to the brain?

(1 mark)

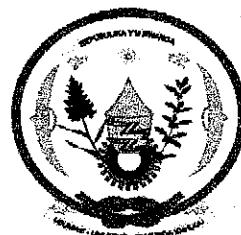
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**Elementary Science and
Technology**

PEST

26 Oct. 2011 9.00 AM - 11 .00 AM

REPUBLIC OF RWANDA



RWANDA EDUCATION BOARD (REB)

P.O BOX 3817 KIGALI TEL/FAX: 586871

Pupil's complete index number

Province/City

District

Sector

School

Pupil

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Pupil's names:

Surname.....

Other names.....

PRIMARY LEAVING NATIONAL EXAMINATION 2011

OCTOBER 2011

ELEMENTARY SCIENCE AND TECHNOLOGY

DURATION: Two hours

Marks:

/100

Instructions

- Write in the space provided in your question paper your index number and names in full as written on your registration form.
- Answer all questions.
- Write your answers in the space provided on your question paper.
- Read each question carefully before answering it.
- Do not make alterations.

SECTION A: (50 MARKS)

1. Name any three tools used by a farmer.

- (a) (1 mark)
(b) (1 mark)
(c) (1 mark)

2. Why is the air of the atmosphere important for lives? Give two reasons.

- (a)
.....
..... (2 marks)
- (b)
.....
..... (2 marks)

3. What is a magnet?

..... (1 mark)

4. Give two reasons to show why light from the sun is important.

- (a)
.....
..... (2 marks)
- (b)
.....
..... (2 marks)

5. Why are white clothes more comfortable to wear on a hot day
than dark clothes.? (4 marks)

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

6. Name and draw a labelled diagram of an instrument used to measure body temperature of people. **(4 marks)**

- a) The instrument is called
- b) The diagram of the instrument

7. State 3 methods of heat transfer.

- (a)..... **(1 mark)**
- (b)..... **(1 mark)**
- (c)..... **(1 mark)**

8. Why do we use blankets to cover ourselves at night ? **(3 marks)**

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

9. Does sound travel through solids ? Explain your answer. **(3 marks)**

.....
.....

10. A vacuum is a space completely empty of matter.

(a) Does sound travel through a vacuum?

..... **(1 mark)**

(b) Does light travel through a vacuum?

..... **(1 mark)**

(c) What would happen to a balloon full of air if it were taken in a vacuum ?

.....
.....

(1 mark)

Write **TRUE** for the correct statement or **FALSE** for the wrong statement for questions 11 to 15.

11. A stone sinks into water because it is hard.

..... (1 mark)

12. Light travels through translucent objects.

..... (1 mark)

13. Sound travels through water.

..... (1 mark)

14. Electricity is a manmade source of energy.

..... (1 mark)

15. Metals are poor conductors of heat.

..... (1 mark)

16. Complete the table below.

(2 marks)

Mass, g	Volume, cm ³	density, g/cm ³
1.8		0.9
	3	13.2

17. (a) How are trees important to the environment.

i) (1 mark)

ii) (1 mark)

- (b) Mention two uses of timber

i)

ii) (2 marks)

18. Electricity in homes makes everyday life good. Mention three ways by which electricity makes life good.

(a) (1 mark)

(b) (1 mark)

(c)..... (1 mark)

19. Why do we use soap to wash clothes ? (2 marks)

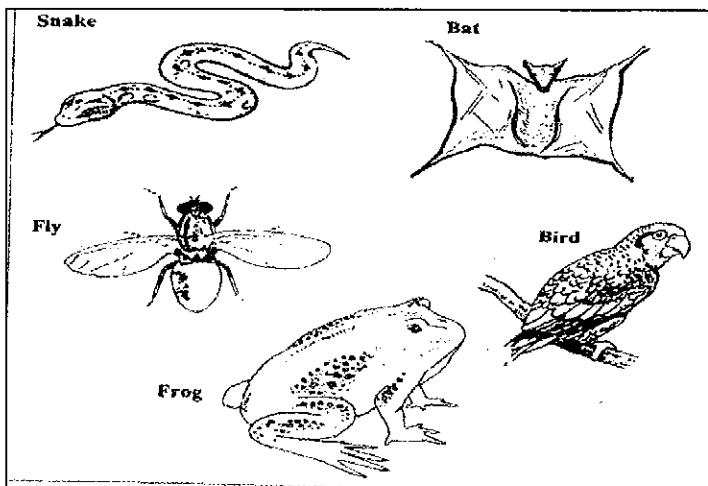
.....
.....
.....

20. The clothes are spread for drying after washing them. Explain this drying up process. (2 marks)

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

SECTION B (50 Marks)

21. Use the diagram below to answer the questions that follow



a) Which of the above animals lay eggs?..... (4 marks)
.....

b) Which of the animals are cold-blooded? (2 marks)
.....

c) Which of these animals is a mammal?..... (1 mark)

22. a) How do we call a reproductive cell of a:
i) woman? (1 mark)

ii) man? **(1 mark)**

c) How are the cells named in (a) above different in shape and size? **(2 marks)**

.....
.....

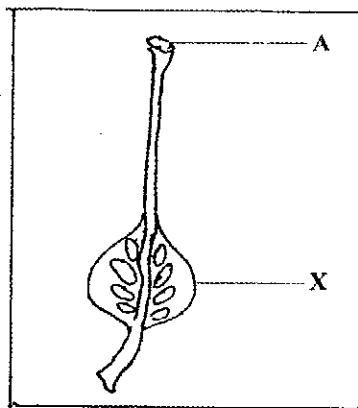
23. Fill in the table below with the example of each given group. **(7 marks)**

Group of animals	Examples
Insects	
Arachnids	
Crustaceans	
Molluscs	
Flat worms	
Segmented worms	
Myriapods	

24. Answer the following questions using True(T) or False (F)

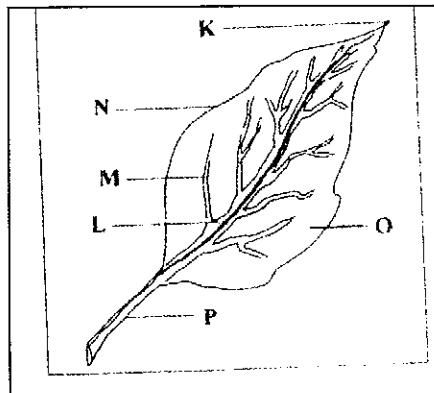
- (i) The virus causing AIDS can be transmitted through sexual intercourse..... **(1 mark)**
- (ii) Mosquitoes transmit the virus that causes AIDS. **(1 mark)**
- (iii) An infected pregnant woman can pass on aids to the Child..... **(1 mark)**
- (iv) Although AIDS is in all parts of the World, it no longer kills People..... **(1 mark)**

25. The diagram below shows part of a flower.



- a) (i) The part marked X develops into.....
after pollination? (1 mark)
 (ii) How is the part marked A useful to the flower?
.....(2 marks)

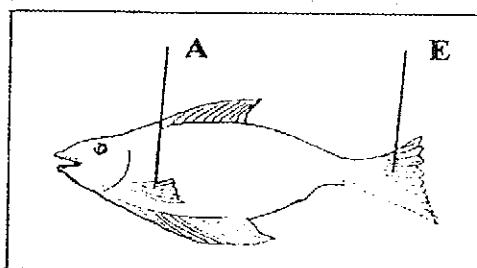
26. The diagram below is of a simple leaf.



Name the parts marked K, L, M, N, O and P

- K.....(1 mark)
 L.....(1 mark)
 M.....(1 mark)
 N.....(1 mark)
 O.....(1 mark)
 P.....(1 mark)

27. The diagram below is of a Tilapia fish. Use it to answer the questions that follow.



- a) i) Name the part labeled A.....(1 mark)
 (ii) How is part E useful to the fish?
.....(1 mark)
- (iii) Which parts on the fish help it to protect itself in water.....

..... (2 marks)

b) What is the importance of eating fish? (2 marks)

28. a) What is plasma?

..... (1 mark)

b) Name the blood vessel that carries blood :

(i) From the liver to the Vena Cava (1 mark)

(ii) From aorta to the Stomach and intestines..... (1 mark)

(iii) From the lungs to the heart. (1 mark)

29. a)What is the name of the Vein that connects the liver to the small Intestines?..... (1 mark)

b) What does the vein carry to the liver..... (1 mark)

30. Name the three types of teeth found in human beings and give the functions of each.

Type 1..... Function

..... (1 mark)

Type 2.....Function.....

..... (1 mark)

Type 3.....Function.....

..... (1 mark)

31. a) A balanced meal is one that

..... (1 mark)

b) What does one have to consider when preparing a balanced meal?

..... (2 marks)

**Elementary Science and
Technology**

PEST

27 Oct. 2010 9h00 – 11h00



P.O.Box 3817 KIGALI-TEL/FAX : 586871

Pupil's complete index number

Province/City

District

Sector

School

Pupil

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PRIMARY LEAVING NATIONAL EXAMINATION

October 2010

ELEMENTARY SCIENCE AND TECHNOLOGY

Time: Two hours

Marks:

/100

Instructions

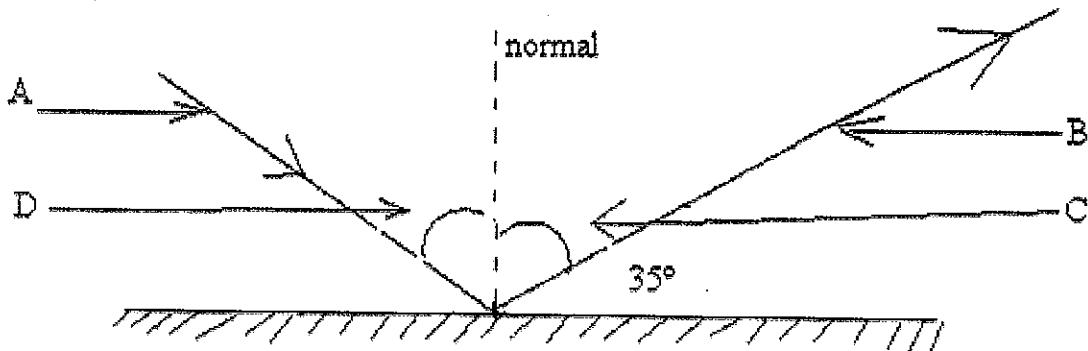
- Write your index number in full as written on your registration form.
- Answer all questions.
- Write your answers in the space provided on your question paper.
- Read each question carefully before answering it.
- Do not make alterations.

SECTION A: (50 MARKS)

1. Who uses a tool called water level? (1 mark)
2. (a) Is the moon a source of light ? YES or NO (1 mark)
- (b) Give an example of a man made source of light. (1 mark)
.....

3. Name any liquid fuel and mention where it is used. (2 marks)
.....
.....

4. The diagram shows a flat mirror reflecting a ray of light.



- Ray A is called (1 mark)
- Ray B is called (1 mark)
- Angle C is called (1 mark)
- Angle D = (1 mark)

5. Why are windows in houses made of transparent glasses? (2 marks)
.....
.....

6. Where does the light from a torch come from? (3 marks)
.....
.....
.....

7. Why does tea in an ordinary aluminium kettle cool down fast.? (2 marks)
.....
.....

8. By which method does the heat from the sun reach the earth? (1 mark)

From question 9 to question 12 answer TRUE or FALSE.

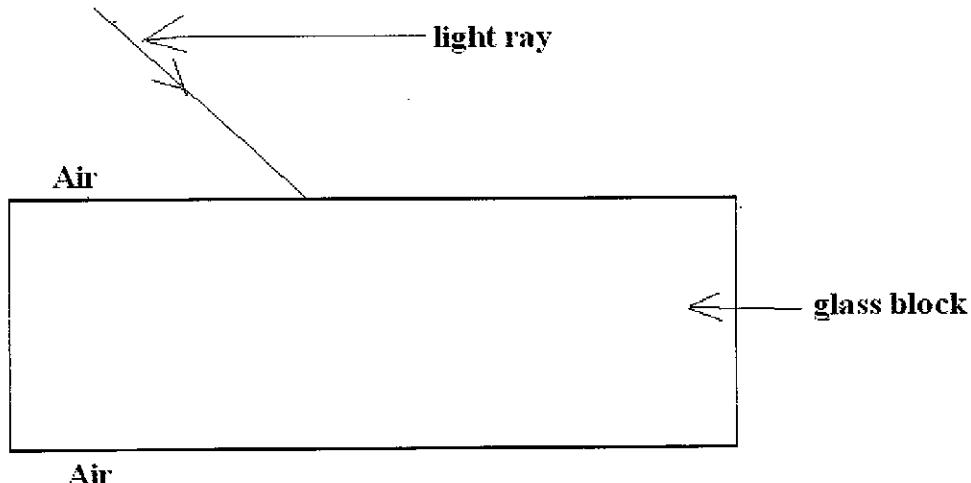
9. Air has no mass. (1 mark)

10. Water has a colour. (1 mark)

11. Stones have greater density than sand. (1 mark)

12. When ice is heated its volume decreases (1 mark)

13. The diagram shows a ray of light entering a glass block. Complete it. (2 marks)



14. Water pollution is caused by:

(a)..... (2 marks)

(b)..... (2 marks)

15. Select two materials from among : **dry wood, iron bar, glass rod, aluminium rod**
which are good conductors of heat (2 marks)

.....
.....

16. (a) State two uses of electricity in hospitals in Rwanda . (2 marks)

.....
.....

(b) Mention any two dangers of electricity.

(2 marks)

.....
.....

17. (a) Does sound travel through water ? YES or NO (1 mark)

(b) Give an example to support your answer in 17(a).

(2 marks)

.....
.....

18 .Which of the following materials are attracted by a magnet:: copper, steel, carbon, iron ?

..... (2 marks)

19. Air is composed of many gases.

Name any two of the gases in air. (i) (1 mark)

(ii) (1 mark)

Which gas puts off the flame of a burning candle? (1 mark)

20. Sound from a distant object is heard louder during the night than during the day.

Why? (3 marks)

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

21. Why is it that on a bright day the sky appears blue ?

(3 marks)

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

22. (a) What is the unit of density? (1 mark)

(b) The mass of a body is 18 g and its volume is 12 cm^3 . Find the density of the body .

(2 marks)

.....
.....

SECTION B: (50 MARKS)

23. a) How many legs does an insect have? (1 mark)

.....

b) Where are the legs of an insect attached? (1 mark)

.....

c) Why is a spider not considered to be an insect? (1 mark)

.....

24. a) What is pollination? (1 mark)

.....
.....

b) Give two names of animals which carry out pollination. (1 mark)

.....
.....

c) What happens after pollination? (1 mark)

.....
.....

25. a) In what ways do plants depend on animals for growth? (1 mark)

.....
.....

b) Plants make their own food. What do plants use to make their food? (2 marks)

.....
.....

26. a) How does an insect breathe? (1 mark)

.....
.....

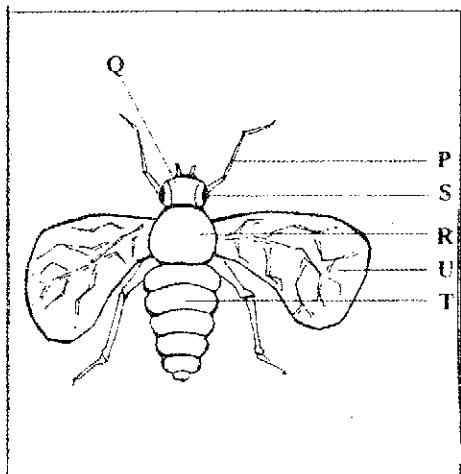
b) Give two diseases spread by the housefly. (1 mark)

.....
.....

27. Give at least two ways in which forests can be conserved. (2 marks)

.....
.....

28. The diagram below shows a housefly.



a) Name the parts labelled Q, R, S and T. (2 marks)

.....
.....

b) What is the function (use) of part P? (1 mark)

.....

29. What two activities can be carried out at school to destroy mosquitoes? (1 mark)

.....

30. Name the mosquito that spreads malaria. (1 mark)

.....

31. What causes malaria? (1 mark)

.....

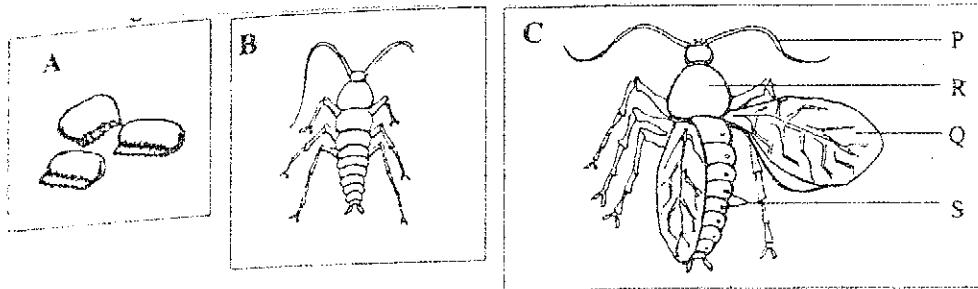
32. a) Name any two water-borne diseases caused by bacteria. (1 mark)

.....

b) How can water-borne diseases be controlled? (1 mark)

.....

33. The diagram below shows stages of development of a cockroach.



a) Name the stages A, B and C.

(3 marks)

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

b) Name the parts marked P and S.

(1 mark)

.....
.....

c) What feature does stage B have that makes it different from stage C?

(1 mark)

.....

34. An elderly man has lost all his molar teeth. Identify two feeding problems he is likely to experience.

(2 marks)

.....

35. a) Lungs are to man as are to tadpoles.

(1 mark)

b) Give two ways by which an adult frog breathes.

(2 marks)

.....
.....

36. a) Give two organs of blood circulatory system.

(2 marks)

.....
.....

b) What name is given to the smallest blood vessel in the human body?

(1 mark)

.....

37. What is the largest blood vessel in the human body?

(1 mark)

.....

38. Salmonella is an infectious disease of chicken. What are signs of Salmonella? (2 marks)

.....

39. Explain why fish is able to swim (2 marks)

.....

40. Give two uses of oxygen: (2 marks)

(i)

(ii)

41. What is the use of carbon dioxide in plants? (1 marks)

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

42. The air we breathe can be made dirty by different pollutants.

Give at least THREE sources of pollution.

(3 marks)

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

43. There are several reasons for processing food. Give only two reasons why food should be processed. (2 marks)

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

44. What is the role of the following organs during digestion of food: (2 marks)

(i) Small intestines?

.....

(ii) Pancreas?

.....

45. Name ONE method you can use to prevent HIV/ AIDS. (1 mark)

.....
.....

**Elementary Science
and Social Studies**

PSA

28 Oct. 2008 1h30 pm – 3h30 pm

RWANDA NATIONAL EXAMINATIONS COUNCIL



P.O.Box 3817 KIGALI-TEL/FAX : 586871

Pupil's complete index number

Province/City

District

Sector

School

Pupil

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PRIMARY LEAVING NATIONAL EXAMINATION

October 2008

ELEMENTARY SCIENCE AND SOCIAL STUDIES

Time: Two hours

Marks:

/100

Instructions

- Write your index number in full as written on your registration form.
- All questions are compulsory.
- Read each question carefully before answering it.
- Do not make alterations.

SECTION A (50 marks)

1. Name one tool which is used by (a) a farmer..... (1 mark)
(b) a carpenter..... (1 mark)
2. Which of the following is a metal: carbon, glass, sodium, oxygen? (1 mark)
3. Mention any two sources of artificial light. (a)..... (1 mark)
(b)..... (1 mark)
4. Which of the following will be picked by a magnet: chalk, wood, stone, iron, nail, glass, steel wire? (2 marks)
.....
.....
5. Name one liquid fuel and one solid fuel used in homes.
(a) Liquid fuel (1 mark)
(b) Solid fuel (1 mark)
6. Why is water a solid when its temperature is below zero degrees centigrade? (1 mark)
.....
7. The density of gold is 19 g/cm^3 . Calculate the volume of 95 g of gold. (2 marks)
.....
8. What does a transformer do? (2 marks)
.....
.....

9. Why does a pond full of clear water appear much shallower than it actually is? (2 marks)

.....
.....

10. By which method is heat transferred

(a) through air? (1 mark)

(b) through a metal? (1 mark)

(c) through water? (1 mark)

11. (a) Which is the energy that helps us to hear? (1 mark)

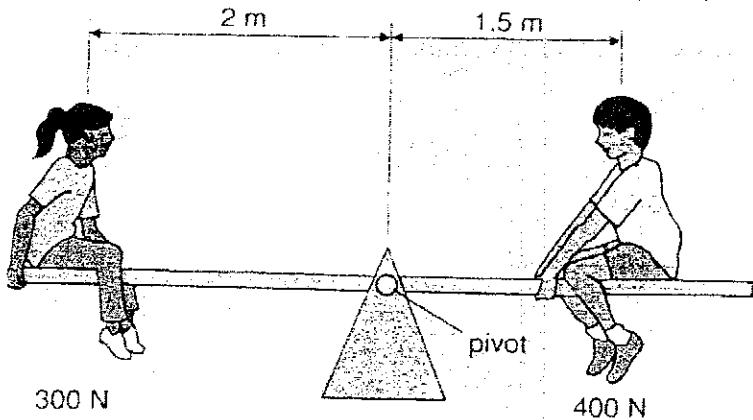
(b) What causes an echo? (1 mark)

.....

12. What is the difference between umbra and penumbra shadows? (2 marks)

.....
.....

13. The figure below shows a girl and a boy on a playing sea-saw.



(a) Who of the two children is heavier than the other? (1 mark)

.....
.....

(b) What will happen if the girl moves towards the pivot ? **(1 mark)**

.....
.....

14. a) What are sexually transmitted diseases? **(1 mark)**

.....
.....

b) How can sexually transmitted diseases be avoided? Give any two ways. **(2 marks)**

.....
.....

15. Name the type of teeth found in man and their special uses. **(4 marks)**

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

16. a) The reproductive cell of a woman is called the ovum. How is the reproductive cell in man called? **(1 mark)**

.....

b) The reproductive cells of woman and man combine to form a single cell. What is the name of this cell? **(1 mark)**

.....

17. Give four characteristics of flowering plants. **(4 marks)**

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

18. What type of reproduction is found in flowering plants? **(1 mark)**

.....

19. Name the four parts of the human heart. (4 marks)

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

20. a) Mention any two signs of cholera. (2 marks)

.....
.....

b) Give two ways of preventing cholera in your home. (2 marks)

.....
.....

21. a) Name the disease caused by lack of vitamin C. (1 mark)

.....

b) What type of food can you give to such a patient? Give an example. (2 marks)

.....
.....

SECTION B (50 MARKS)

22. Mention any two political administrative levels in Rwanda. (2 marks)

- a)
b)

23. State the two lowest official political administrative levels in your district. (2 marks)

- a)
b)

24. Name any two qualities of a good leader at the level of your "UmuDugudu". (2 marks)

- a)
b)

25. The national flag is a symbol of identity and sovereignty of a country. Name the three colours of the Rwandan flag from top to bottom. **(3 marks)**
- (a)
- (b)
- (c)
26. Fill in the blank space.
- In Rwanda, children have a right to **(1 mark)**
- They also have right to **(1 mark)**
27. Mention only two ways in which adults may violate children's rights. **(2 marks)**
- (a)
- (b)
28. Mention 2 causes of conflict at family level. **(2 marks)**
- (a)
- (b)
29. State only two ways in which the Mayor of your district can resolve some conflicts within your community. **(2 marks)**
- (a)
- (b)
30. State any two consequences of the Rwandan genocide. **(2 marks)**
- (a)
- (b)
31. Give any two problems faced by refugees. **(2 marks)**
- (a)
- (b)

32. Explain any two ways in which your community has promoted unity and reconciliation at the level of “Akagari”. **(2 marks)**
- (a)
- (b)
33. What may happen if there is no Unity among Rwandans? Give only 2 reasons. **(2 marks)**
- (a)
- (b)
34. How can the social problems you identified in your community be solved? Give two reasons. **(2 marks)**
- (a)
- (b)
35. Explain only two ways through which HIV/AIDS (SIDA) may be transmitted from one person to another. **(2 marks)**
- (a)
- (b)
36. (a) Mention only one of the commonly known methods of preventing HIV/AIDS (SIDA). **(1 mark)**
.....
- (b) State only one consequence of HIV/AIDS (SIDA) on our society. **(1 mark)**
.....
37. Identify any two consequences of population growth in Rwanda. **(2 marks)**
- (a)
- (b)

38. Explain two factors which contribute to soil erosion. **(2 marks)**

- (a)
- (b)

39. Rwanda is said to be underdeveloped. Suggest 2 reasons for this. **(2 marks)**

- (a)
- (b)

40. Describe two ways in which good governance may be practised in your home sector “Umurenge”. **(2 marks)**

- (a)
- (b)

41. Since 1994, Rwanda has taken a path of democratic leadership. Explain any two ways which show democratic practice in your home district. **(2 marks)**

- (a)
- (b)

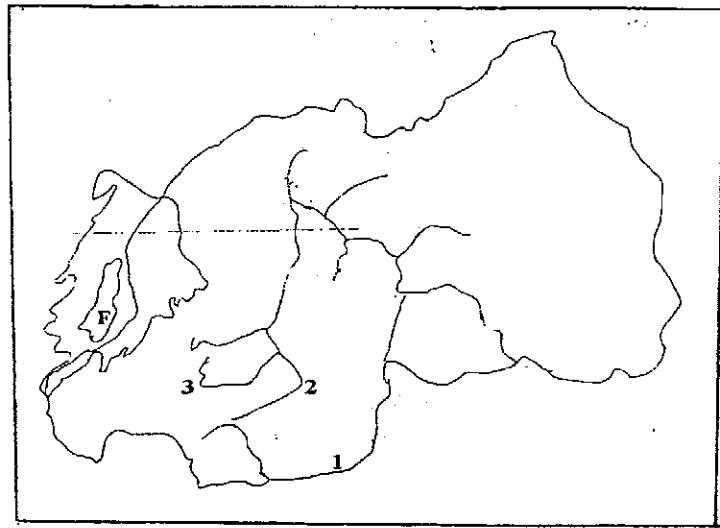
42. The management of the surrounding of our homes and schools is necessary to improve our environment. Explain only two ways in which we can manage our environment. **(2 marks)**

- (a)
- (b)

43. Rwanda is nationally and internationally regarded as a gender sensitive country. Show only two factors which can continue to contribute gender balance in our country. **(2 marks)**

- (a)
- (b)

44. Observe the hydrographic map below and answer the following questions.



(a) Name the rivers 1, 2, 3 shown on the map.

(3 marks)

.....
.....

(b) To which hydrographic basin do those rivers belong?

(1 mark)

.....

(c) Name the island F.

(1 mark)

.....

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**Elementary Science
and Social Studies**

PSA

23 Oct. 2007 13h30 – 15h30

RWANDA NATIONAL EXAMINATIONS COUNCIL



B.P. 3817 KIGALI-TEL/FAX : 586871

Pupil's complete index number

Province/City

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District

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Sector

--	--

School

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Pupil

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PRIMARY LEAVING NATIONAL EXAMINATION

October 2007

ELEMENTARY SCIENCE AND SOCIAL STUDIES

Duration: Two hours

Marks:

/100

Instructions

- Write your index number in full as written on your registration form.
- All questions are compulsory.
- Read each question carefully before answering it.

SECTION A

1. Give the name of the metal from which saucepans are made. (1)

.....

2. What are the two most common solid fuels used for cooking in Rwanda?

a) (1)

b) (1)

3. Why is the density of ice less than the density of water? (1)

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

4. Complete the following sentence : (2)

Toilet windows of modern house are made of translucent glasses because

.....
.....

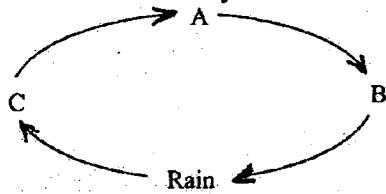
5. a) Name the machine below : (1)



- b) State what this machine is used for? (1)

.....

6. The diagram below shows a water cycle.



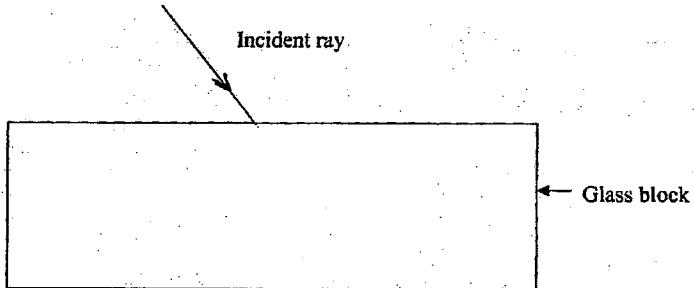
Name A, B and C.

- A (1)
B (1)
C (1)

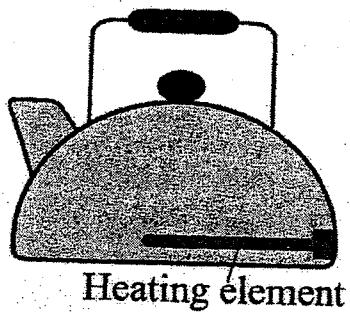
7. Complete the sentence below :

Light from the moon comes from (1)

8. Complete the diagram below to show the path of incident ray of light through the glass block. (3)



9. The diagram below shows an electric kettle.



Why is the heating element not put near the top of the kettle? (2)

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

10. What causes the water to exist in three different states?

(1)

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

11. Draw a simple electric circuit consisting of 2 torch batteries, a bulb and a switch.

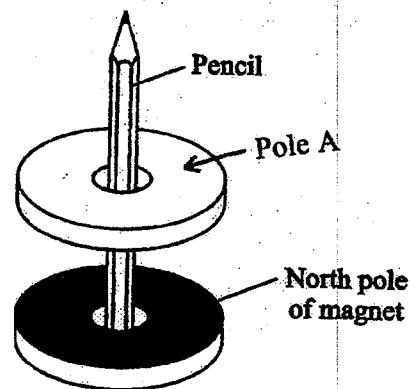
(3)

12. What is the use of batteries in a simple electric circuit ?

(1)

.....
.....

13. The diagram below shows two circular magnets.



a) Pole A is (1)

b) Why does the top magnet float above the bottom magnet? (2)

.....
.....

14. Write two ways to prevent pollution of air.

a) (1)

b) (1)

15. What is personal hygiene? (1)

.....
.....

16. Study the diagram below and answer the questions that follow :



a) Name and give the main function of parts marked X and Y.

X (2)

Y (2)

b) Identify the second life stage history of this insect. (1)

.....

17. Mention the component of blood that helps to transport oxygen in the body. (1)

.....
.....

18. State the process where by food is oxidised with oxygen to produce energy. (1)

.....
.....

19. What is the longest part of alimentary canal? (1)

.....

20. Name the method of propagation where a bud or shoot of one plant is made to grow on another plant. (1)

.....

21. a) Anaemia is a consequence of iron and protein deficiency in the body.

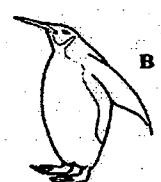
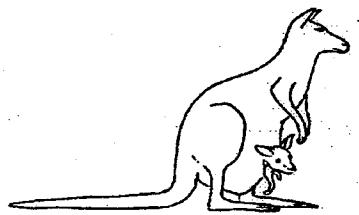
Name one other disease which can cause anaemia? (1)

.....

b) Name any symptom of anaemia. (1)

.....

22. Which group of animals do the following belong?



A : (1)

B : (1)

C : (1)

23. Match animals in group A to their modes of feeding in group B. (5)

Group A

Dog

Chameleon

Rabbit

Hen

Cow

Group B

Rodent

Granivores

Insectivores

Herbivores

Carnivores

24. What is the reproduction mode of the sugar can?

..... (1)

25. Suggest two of the methods used to avoid pregnancy.

(a) (1)

(b) (1)

SECTION B (50 marks)

26. Complete the following sentences with appropriate words from the list: players, faith, Christians, community, qualities, weakness, prayer.

a) in one God and
are vital for both and Muslims. (3)

b) Devotion, patience, kindness and firmness are moral (1)

27. What do attempt to take one's life and discrimination violate ? (1)

.....

28. Give 2 examples of public works.

(a) (1)

(b) (1)

29. Why is separation of powers important ?

Give two reasons.

(a)

..... (1)

(b)

..... (1)

30. Name 2 symbols which distinguish a nation from others.

- (a) (1)
(b) (1)

31. Suggest two ways in which road accidents can be reduced.

- (a) (1)
(b) (1)

32. Outline two problems of a large family.

- (a) (1)
(b) (1)

33. Name 2 sub-regional organisations in Africa.

- (a) (1)
(b) (1)

34. Why is drawing an important subject to be taught? Give two reasons.

- (a) (1)
(b) (1)

35. State three values or principles that should be promoted to achieve peace in Rwanda.

- (a) (1)
(b) (1)
(c) (1)

36. Name the king of Rwanda who died in Bujumbura, Burundi, in 1959.

(1)

37. A part from Rwanda, name another place where genocide ever took place. (1)

.....

38. Name the two European countries that ruled Rwanda before independence.

- (a) (1)
(b) (1)

39. Mention two human activities that lead to the destruction of forests in Rwanda.

- (a) (1)
(b) (1)

40. State two limitations to or disadvantages of newspapers as means of communication in Rwanda.

- (a) (1)
(b) (1)

41. Give two reasons why lakes and rivers of Rwanda are important.

- (a) (1)
(b) (1)

42. Give two examples of plantation crops in Rwanda.

- (a) (1)
(b) (1)

43. Environment comprises many things. State any two of them.

- (a) (1)
(b) (1)

44. Write 2 reasons why people leave rural areas for towns and cities.

- (a) (1)
(b) (1)

45. How can we maintain and, or protect our swamps? Give two ways.

- (a) (1)
(b) (1)

46. Name two consequences of alcoholism.

- (a) (1)
(b) (1)

47. Rugendo flew from Kamembe to Kanombe. What compass direction did he take ? (1)

.....

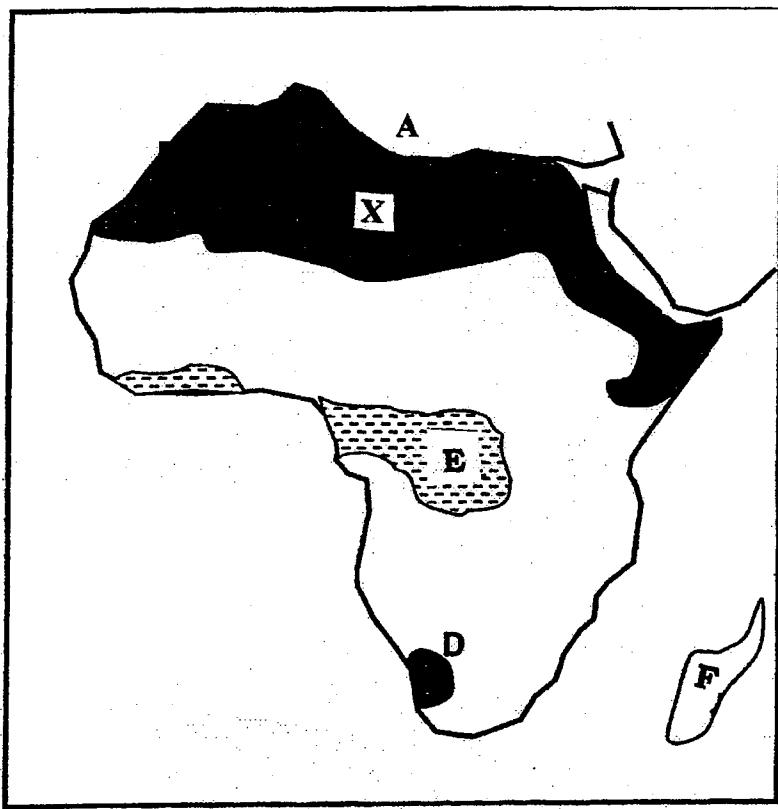
48. Name the highest mountain in Africa. (1)

.....

49. Name the largest lake in Africa. (1)

.....

50. Study the map of Africa below and answer questions that follow.



a) Name the hot deserts **X** and **D**.

X (1)

D (1)

b) Name the sea marked **A**. (1)

.....

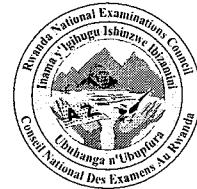
c) Name the shaded forest **E**. (1)

.....

d) Name island **F**. (1)

.....

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Elementary Sciences and Social Studies

PSA

31 Oct. 2006 13.30 p.m – 15.30 p.m

Pupil's complete index number

Province

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District

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Sector

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School

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Student

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PRIMARY LEAVING NATIONAL EXAMINATION

October 2006

ELEMENTARY SCIENCES AND SOCIAL STUDIES

Duration : 2 hours

Marks:

/ 100

Instructions

- Write your index number in fully as written on your registration form.
- All questions are compulsory
- Read each question carefully before answering it.

SECTION A

1. What causes day and night?

(1mark)

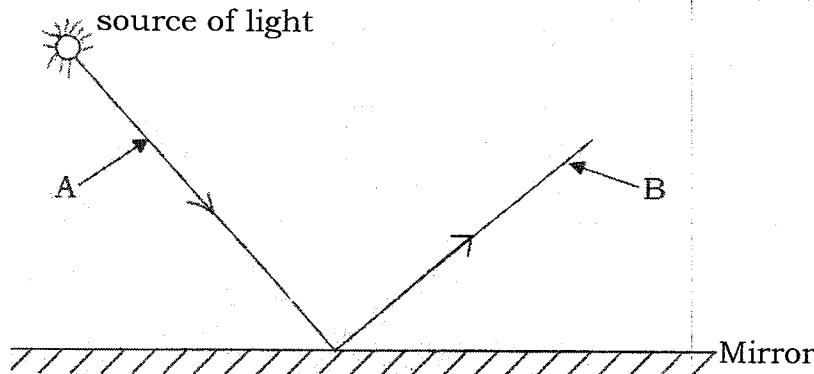
.....

2. Why are most windows of modern houses made of glasses?

(2marks)

.....

3.



Ray A is called..... and ray B is called..... **(2marks)**

4. a) Which travels faster light or sound?

(1mark)

b) Does sound travel through water?

(1mark)

5. What would be the state of water if its temperature is decreased to below 0° C ?

(1mark)

6. The mass of a substance is 9.0 g and its volume is 10cm³.

Calculate the density of the substance.

(2marks)

.....

7. A person sinks into water in a lake. However, when a person is on a boat, the boat does not sink into the lake. Why?

.....

(2marks)

8. a) Why do people who live in hot deserts wear white clothes?

..... **(2marks)**

b) Why are blankets good for covering ourselves during cold nights?

(1mark)

.....

9. If pieces of iron have dropped into the sand, which simple material can you use to pick the iron pieces from the sand?

..... **(1mark)**

10. Why does a vacuum flask keep tea hot longer than an ordinary kettle?

Give three reasons. **(3marks)**

i)

ii)

iii)

11. a) Which is the source of energy that enables radios to produce sound?

(1mark)

.....

b) Which of the following materials can conduct electricity: copper, dry wood, plastic ruler, rubber, iron? **(2marks)**

.....

c) Electricity can be dangerous. Name two accidents electricity may cause in a home. **(2marks)**

12. Give examples of animals which breathe through

- (i) the gills.....
 - (ii) the skin.....
 - (iii) Lungs and skin.....
- (3marks)**

13. Coccidiosis is a common disease of rabbits.

Give two signs shown by rabbits when they have this disease?

..... **(2marks)**
.....

14. Study the leaves below and answer the questions that follow.



(i) Which of the above is a simple leaf? **(1mark)**

.....

(ii) What is the name of the gas produced by leaves during photosynthesis? **(1mark)**

.....

15. Where in our bodies is blood filtered to remove wastes ? **(1mark)**
16. Each part of plant has a particular role. What is the role of:
(i) roots **(1mark)**
(ii) stem **(1mark)**
(iii) flowers. **(1mark)**
(iv) fruits **(1mark)**
17. What are agents of pollination? **(4marks)**
18. Cholera and dysentery are caused by microbes, germs. Suggest three methods you can use to avoid catching these diseases. **(3marks)**
19. (i) Define fertilization and implantation. **(2marks)**
.....
.....
- (ii) How many months does pregnancy last in a cow? **(1mark)**
.....
20. a) What is the full name of HIV ? **(1mark)**
.....
- b) Give three ways you can avoid contracting HIV. **(3marks)**
.....
.....
.....

SECTION B

21. Who was the mother of Jesus ? **(1mark)**
.....
22. Name the African country Jesus ever visited. **(1mark)**
.....
23. How many disciples did Jesus have ? **(1mark)**
.....
24. Which famous American woman evangelist visited Rwanda in April 2006? **(1mark)**
.....
25. Rome is to Roman Catholics as is to Moslems. **(1mark)**
26. What do Moslems do in the month of *Ramadhan*? **(1mark)**
.....
27. Which is the most important bank in Rwanda? **(1mark)**
.....
28. Give the name of the world renowned terrorist in hiding. **(1mark)**
.....
29. Who heads the following types of governments ?
a) A republic..... **(1mark)**
b) A kingdom..... **(1mark)**
30. If you are boys and girls at home, who should clean the house? **(1mark)**
.....
31. What should you do if you buy something and the shopkeeper gives you more money than your change? **(1mark)**
.....

32. State two things you should do in class when there is no teacher.

(2marks)

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

33. List two advantages of sports and two of music.

(4marks)

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

34. Give any two sources of news in Rwanda .

(2marks)

.....
.....

35. Which three African countries were colonized by Belgium?

(3marks)

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

36. Write U. N. O in full.

(1mark)

.....

37. Which king of Rwanda has been declared a hero?

(1mark)

.....

38. Name the man who led blacks in South Africa to independence.

(1mark)

.....

39. Who was the Commander of the UN force that was in Rwanda during the 1994 genocide? **(1mark)**

.....

40. List any two provinces of Rwanda. **(2marks)**

.....

.....

41. Give any two things a good map should have. **(2marks)**

.....

.....

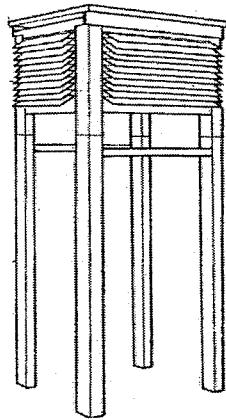
42. What is the importance of Ndaba Rock to the people of Rwanda? **(1mark)**

.....

43. Why are the port of Mombassa and Dar Es Salaam important to Rwanda's economic development? **(1mark)**

.....

44. The diagram below is of a *Stevenson Screen*.



What is the importance of this drawing at a *Weather Station*? **(1mark)**

.....

45. Which is the natural source of water? **(1mark)**

.....

46. Outline any three uses of forests . **(3marks)**

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

47. Bushombe and Kankwanzi flew from Kigali to Cairo. What compass direction did they take? **(1mark)**

.....

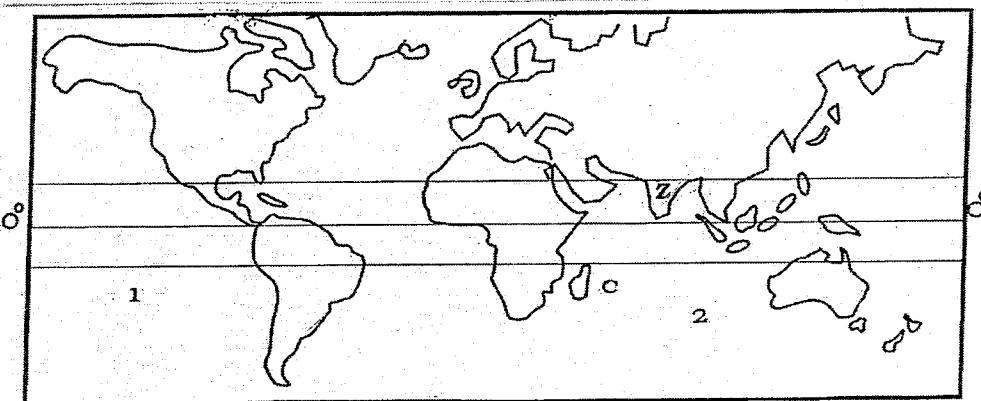
48. Which river forms a natural boundary between Rwanda and Tanzania? **(1mark)**

.....

49. What methods should farmers in highland areas use to control soil erosion? **(3marks)**

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

50. **Study the world map below and answer questions that follow.**



a) Name oceans marked **1** and **2**. **(2marks)**

.....
.....

b) Which island is marked **C**. **(1mark)**

.....

c) List any three African countries crossed by line **0°**. **(3marks)**

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

d) Identify country **Z**. **(1mark)**

.....

**Elementary Sciences and
Social Studies**

PSA

08 Nov 2005 13h30 – 15h30



B.P. 3817 KIGALI - TEL/FAX : 586871

Pupil's complete index number

Province

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District

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School

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Student

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PRIMARY LEAVING NATIONAL EXAMINATION 2005

ELEMENTARY SCIENCES AND SOCIAL STUDIES

Duration: 2 hours

Marks:

/ 100

Instructions

- Write your index number in fully as written on your registration form.
- All questions are compulsory.
- Read each question carefully before answering it.

SECTION A

1. For each of the following statements, indicate if it is **TRUE** or **FALSE** (correct or wrong).

(4marks)

- (i) Milk is a balanced diet.....
- (ii) Young children can grow normally without eating proteins.....
- (iii) A cow, a rat and a cat are mammals.....
- (iv) Snakes, frogs and fish are reptiles.....

2. Match the following organisms in **A** with their respective examples in **B**.

(4marks)

A

Decomposers
Herbivores
Carnivores
Omnivores

B

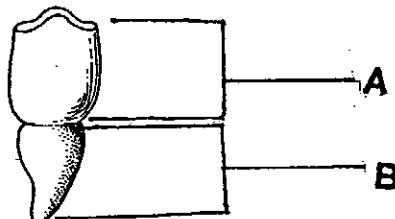
Man
Goats
Leopard
Bacteria

3. (a) An adult person has 32 teeth. What is the use of teeth?

(1mark)

.....

(b) The diagram below shows the structure of a tooth.



Name the parts labelled A, B.

(2marks)

A.....

B.....

(c) Why is it advisable to wash your hands before eating with your hands?

(1mark)

.....

4. (a) Give at least three examples of sexually transmitted diseases.

(3marks)

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

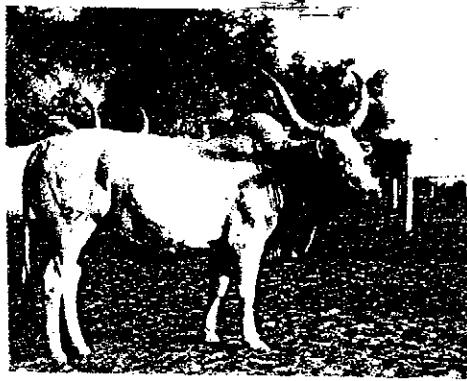
(b) Name two ways of preventing such diseases.

(2marks)

.....
.....

5. The figures below show two types of cows. One is a local cow and the other is an imported one.

Local cow



Imported cow



Give at least three differences between the two cows.

(3marks)

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

6. Burning forests in Rwanda is not allowed and is punishable.

Why? Give three reasons why forests must not be burnt.

(3marks)

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

7. Give at least three reasons why the government of Rwanda took the decision to stop the selling of polythene bags (*ubushashi*).

(3marks)

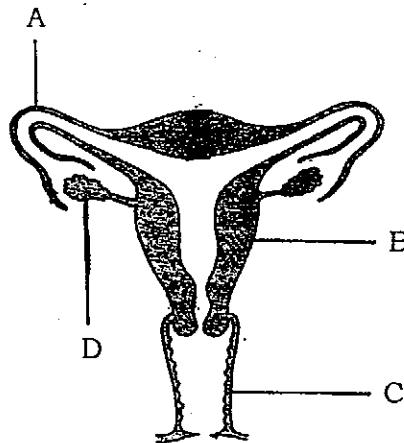
.....
.....
.....

8. Name at least three sources of electricity.

(3marks)

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

9. The diagram below shows the human female reproductive system.



(a) Name the parts labelled **A**, **B**, **C** and **D**.

(4marks)

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

(b) Indicate with letter X on the diagram where the embryo develops.

1mark)

10. (a) What is a transparent body?

(1mark)

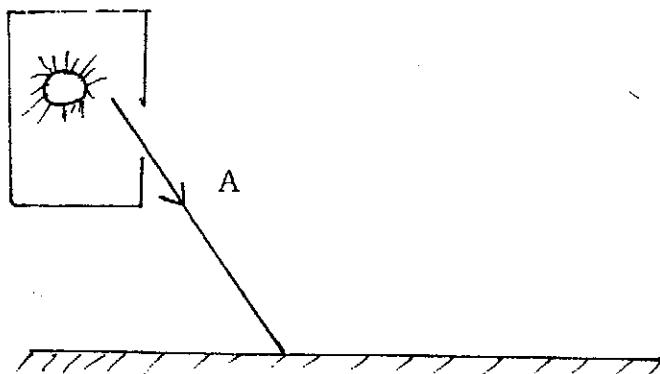
.....

(b) Give one example of a transparent body.

(1mark)

.....

11. Below is a plane mirror and light from a lamp falling onto the mirror.



(a) How is light ray **A** called?

(1mark)

A is.....

(b) On the diagram, draw a ray to show the direction of ray **A** after falling on the mirror surface.

(1mark)

(c) What is the name of the ray you have drawn?

(1mark)

.....

- 12 (a) Name three things which are involved in the formation of eclipses.

(3marks)

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

(b) What causes a lunar eclipse?

(1mark)

.....

13. Electric cables are made of copper wires which are covered by plastic materials. Why are plastic materials used to cover copper wires?

(2marks)

.....
.....

14. How does the heat from the sun reach the earth?

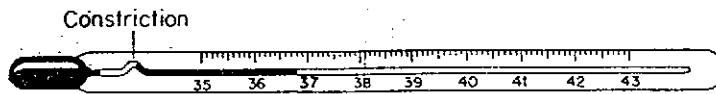
(1mark)

.....

15. Why are most tea cups made of poor conductors of heat? **(1mark)**

.....

16. Study the instrument below and answer the questions below it.



(a) What is the name of the instrument? **(1mark)**

.....

(b) What is the instrument used for? **(1mark)**

.....

(c) Name the instrument used to measure the amount of rainfall. **(1mark)**

.....

SECTION B

17. Name the mountain on which God gave Moses the *Ten Commandments*. **(1mark)**

.....

18. Name the sea the Israelites crossed on their way from Egypt to the Promised Land. **(1 mark)**

.....

19. Who were the first two disciples of Jesus? **(2marks)**

.....

.....

20. What does 'Allah' mean? **(1 mark)**

.....

21. Name the prayer house for Moslems. **(1mark)**

.....

22. Name the town in which Mohammed was born. **(1mark)**

.....

23. Name the Ministry responsible for immunization/vaccination of children **(1mark)**

.....

24. (a) Give the name of a Rwandese who has been elected to head the African Development Bank. **(1mark)**

.....

(b) Give the name of a lady who has been elected to be Vice President of World Trade Organization. **(1mark)**

.....

25. How many districts are in Rwanda? **(1mark)**

.....

26. Two very important ladies visited Rwanda in July 2005.
Who were the ladies? **(2marks)**

.....

.....

27. Give two ways of behaving politely at school. **(2marks)**

.....

.....

28. Give one reason why peace is important to our community. **(1mark)**

.....

.....

29. Which African country is **not** a member of the African Union (AU)? **(1 mark)**

.....

30. (a) What does COMESA mean? **(1mark)**

.....

(b) Who is the current Chairman of COMESA? **(1mark)**

.....

(c) Name the newest member of COMESA. **(1mark)**

.....

31. Who is the new Pope?. **(1 mark)**

.....

32. Name the former American President who has visited Rwanda three times. **(1mark)**

.....

33. State the National Motto of Rwanda. **(1mark)**

.....

34. Give two uses of a Post Office. **(2marks)**

.....

.....

35. The Rwandan Parliament is divided into two chambers.
Name them. **(2marks)**

.....

.....

36. Name any two European countries that had colonies in Africa. **(2marks)**

.....

.....

37. Which African country got independence on the same day as Rwanda? **(1mark)**

.....

38. Name two African countries that were never colonized.

(2marks)

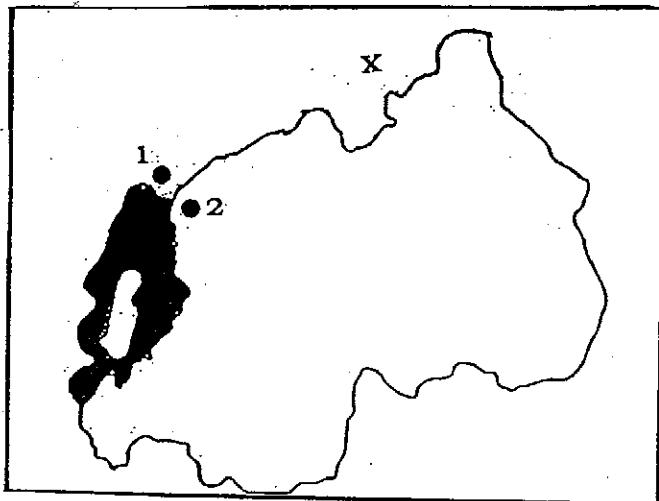
.....
.....

39. Name the UN force that was in Rwanda during the 1994 genocide.

(1mark)

.....

Study the map of Rwanda below and answer questions 40-41



(2marks)

40. Name towns **1** and **2**.

1..... 2.....

41. Name the capital city of country **X**.

(1mark)

X.....

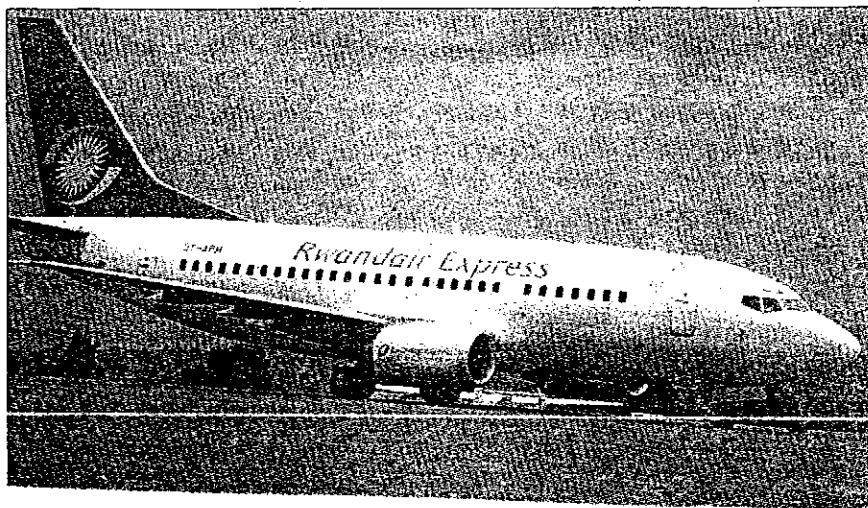
42. Name the newest national park of Rwanda.

(1mark)

.....

43. (a) Name the type of transport shown below.

(1mark)



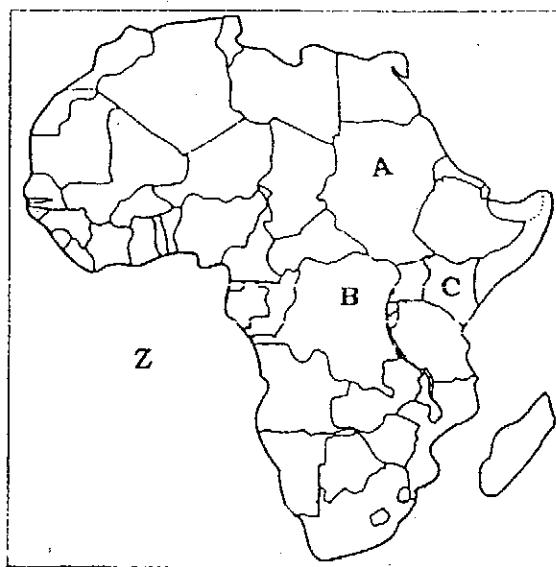
.....
.....
.....
.....
.....

(b) Give two towns in Rwanda between which this type
of transport can be used.

(2marks)

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

Study the map of Africa below and answer questions 44-45



44. Name countries **A**, **B**, and **C**.

(3marks)

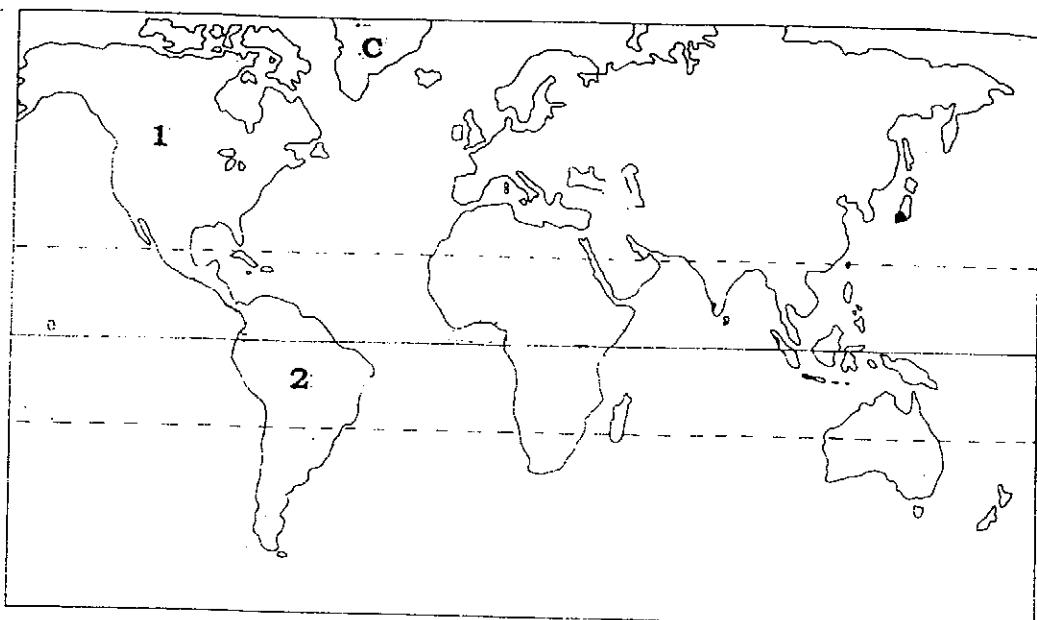
- A.....
B.....
C.....

45. Name ocean Z.

(1mark)

Z.....

Study the world map below and answer questions 46-47



46. Name continents 1 and 2.

(2marks)

1..... 2.....

47. Name the island marked C.

(1mark)

C.....

48. Name the highest mountain in the world.

(1mark)

.....

49. Which is the largest continent?

(1mark)

.....

50. Name the largest river in South America.

(1mark)

.....

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Elementary Sciences and Social Studies

PSA

23 Sept 2004 13.30 p.m. – 15.30 p.m.

B.P. 3817 KIGALI - TEL/FAX : 586871

Pupil's complete index number

Province

District

School

Student

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PRIMARY LEAVING NATIONAL EXAMINATION 2003-2004

SEPTEMBER 2004

ELEMENTARY SCIENCES AND SOCIAL STUDIES

Duration: 2 hours

Marks:

/ 100

Instructions

- Write your index number in full.
- All questions are compulsory.
- Read each question carefully before answering it.

Section A

1. The human body has different organs which play a role in different body systems.

Match body systems in **List A** with the corresponding organs in **List B**.

<u>Body System</u>	<u>Organ</u>	
a) Respiratory System	Brain	
b) Circulation System	Kidney	
c) Urinary System	Stomach	
d) Nervous System	Heart	
	Lungs	(4 marks)

2. The table below shows some animals and the class to which they belong. Complete the table by ticking the right box.

Animal	Mammal	Amphibian	Reptile	Bird	Fish
Crows					
Snake					
Frog					
Human being					

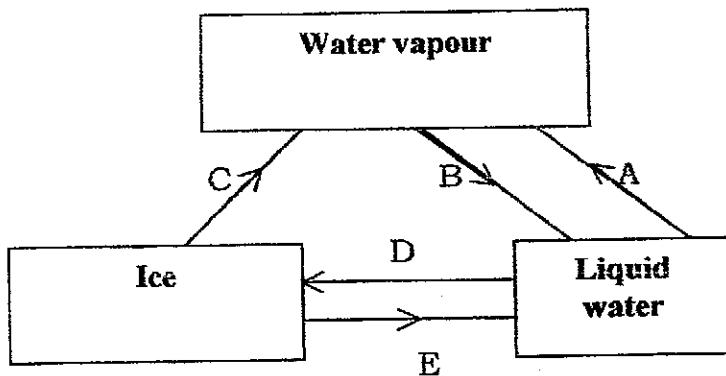
(4 marks)

3. Name the instrument that is used to measure the following :

- a) Rain-----
- b) Wind-----
- c) Temperature-----

(3 marks)

4. Water exists in three states of matter, Ice, Liquid water and water vapour. On heating or cooling, there is change of State as indicated by processes A to E. Study the diagram below especially the direction of the arrows and answer the following questions.



Eg : Process A is called : boiling

Process B is : -----

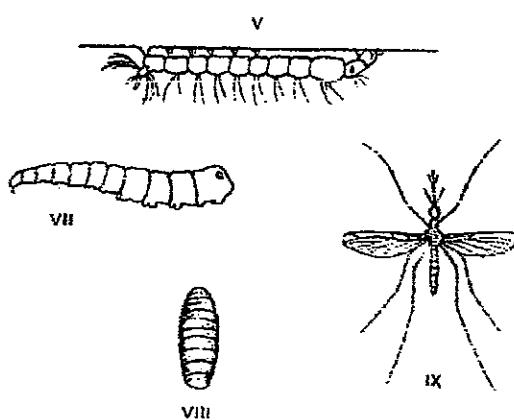
Process C is : -----

Process D is : -----

Process E is : -----

(4 marks)

5. The diagram below shows the life cycle of a mosquito .



a] Name the stages labelled below.

Stage v is called-----

Stage vii is called-----

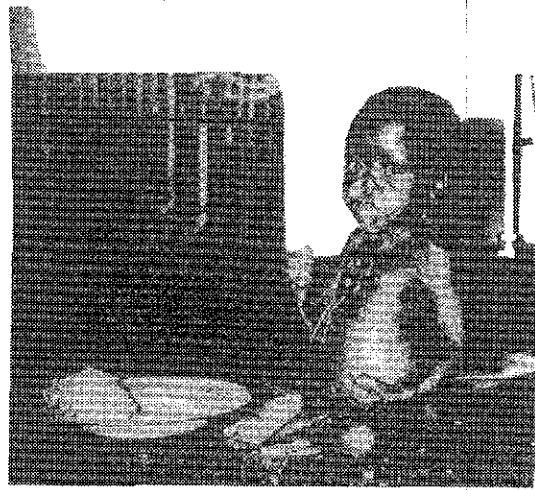
Stage viii is called -----

(3 marks)

b] Name one disease that can be transmitted by a mosquito.

----- (1 mark)

6. Study the picture below and the answer questions that follow.



a] What disease is the child suffering from ?

----- (1 mark)

b] Name one type of food that you can give to the child so that he becomes better.----- (1 mark)

7. The Government of Rwanda always tells people to plant trees.

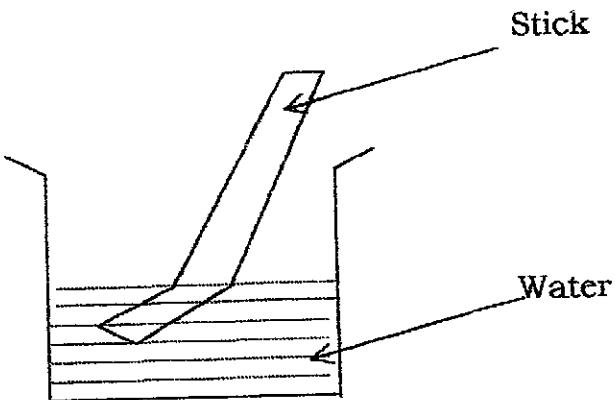
a] Give 3 reasons why plants should be planted.

(3 marks)

b] Burning trees releases carbon dioxide and carbon monoxide gases into the atmosphere. Name two environmental problems that the gases may cause.

(2 marks)

8. A straight stick is put in a cup or beaker of water. When a girl called Mary looked through water, she shouted, "come and see", the stick has been bent !



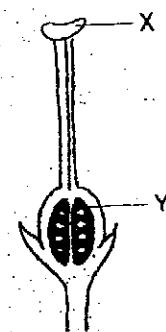
- a) Why does the stick appear bent ?

[1 mark]

- b) Another girl called Jane looked her self in a mirror . She touched her left ear with her left hand but in a mirror it looked liked she was touching her right ear with her right hand. Give a reason for the observation.

[1 mark]

9. The diagram below shows part of a flower.



- a) Name the parts labelled X and Y.

X is -----

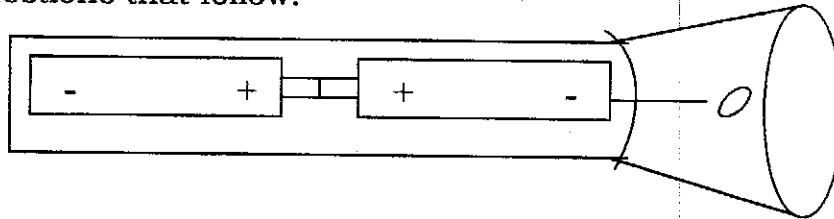
Y is -----

[2 marks]

b] What is the function of the part labelled Y ?

(1 mark)

10. Study the sketch diagram of a torch below and answer the questions that follow.



a] When the torch is switched on, will it give light ?

(1 mark)

b] Give a reason for your answer.

(1mark)

11. a] Give two examples of artificial sources of energy.

(2 marks)

b] What is the difference between energy and fuel ?

(1 mark)

12. What is the difference between a zygote and an embryo ?

(2 marks)

13. a] Give two reasons why people are advised to rear [keep] cows / cattle.

(2 marks)

- b] Name two important tools that are used in a Modern cattle farming.

(2 marks)

14. a] Give one example of an infectious or contagious disease.

(1 mark)

- b] How is such a disease transmitted from one person to another ?

(1 mark)

From question 15 to 20 , answer true if the statement is correct and answer false if the statement is wrong

15. A wheel barrow is an example of a lever system.

(1 mark)

16. When you eat cassava your body takes in some starch.

(1 mark)

17. Sound travels faster than light.

(1 mark)

18.



The two bar magnets above will attract when the ends marked S are close to each other.

(1 mark)

19. HIV Aids can be cured if you see a doctor.

(1 mark)

20. It is advisable to wear black clothes during the hot season.

(1marks)

Section B

21. a] State the two most important commandments common to all religions.

(2 marks)

- b] State one advice you would give to the people who committed genocide in Rwanda.

(1 mark)

22. On which days of the week do the following religions pray?

Roman Catholics -----

Seventh Day Adventists -----

Muslims -----

(3 marks)

23. State three possible causes of accidents on the roads.

(3 marks)

24. State two changes that take place in a boy at the age of puberty.

(2 marks)

25. Give two reasons why it is advisable to keep money in a bank.

(2 marks)

26. In the year 2001, the organisation of African Unity [OAU] changed its name

a] What is the new name of OAU in full? ----- **(1 mark)**

b] Give the name of one of the Vice Presidents of the new organisation? ----- **(1 mark)**

- c] There is another organisation whose abbreviation is NEPAD.
What does NEPAD mean ?

----- (1 mark)

27. a] What does the word democracy mean ?

----- (1 mark)

- b] Name a country in Europe where Democracy started.

----- (1 mark)

28. Colonialism in Africa was good and bad. Mention two good things and two bad things brought to Africa by colonialism.

Good Things : -----

Bad things : -----

(4 marks)

29. Suppose you want to convince your parents, your brothers and sisters not to side with people who want to kill others for nothing because it can cause war, what two things would you tell them about the dangers of war ?

(2 marks)

30. a] What is the present total number of Ministers and State Ministers of Rwanda ?

----- (1 mark)

- b] How many women/Ladies are Ministers and State Ministers all together. ----- (1 mark)

From questions 31 to 37, answer **true** if the statement is correct and **False** if the statement is wrong.

31. The latest national population census in Rwanda took place in October 2003. _____ (1 mark)
32. The number of international conferences so far organised by the Unit and reconciliation commission is 2. _____ (1 mark)
33. APR FOOTBALL club has taken Kagame cup only once. _____ (1 mark)
34. France is one of the countries that has ever colonised Rwanda. _____ (1 mark)
35. A country that is ruled by a King is known as a republic _____ (1 mark)
36. America's independence day is the same as Rwanda's independence Day _____ (1 mark)
37. Kagame was elected as the President of Rwanda after contesting / competing with three other people who wanted to become the President . _____ (1 mark)
38. Part of electricity supply in Rwanda is generated near one of the lakes in Rwanda.
a] What is the name of the lake ? _____ (1 mark)
b] Give one reason why electricity supply in the country is very low these days. _____ (1 mark)
39. Give the name of one subsistence crop in Rwanda that can be preserved [kept] for a long time without being spoilt. _____ (1 mark)

40. Give one reason why people should protect National Parks of Rwanda.

----- (1 mark)

41. Name one province of Rwanda that shares a border with Tanzania .

----- (1 mark)

42. Give the name of one cash crop that people of Rwanda should grow /plant.

----- (1 mark)

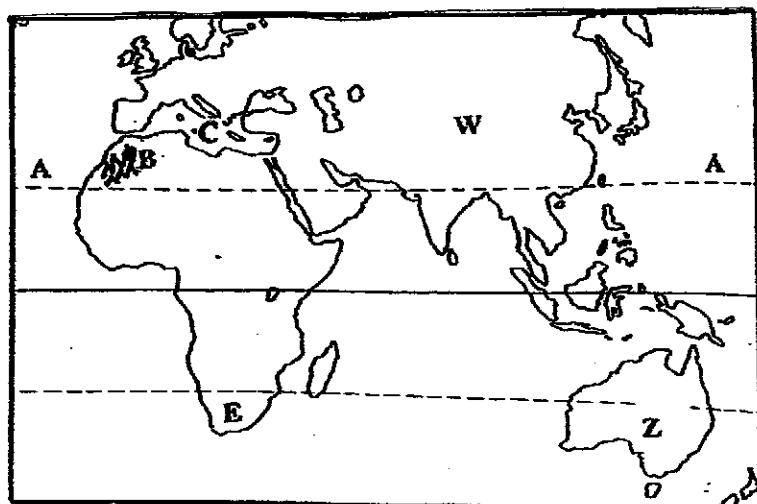
43. State one importance of Lake Kivu to the people of Rwanda and of Democratic Republic of Congo.

----- (1 mark)

44. Which is the longest river in Africa ?

----- (1 mark)

Study the map below and answer questions 45 to 50



45. Name country E ----- [1 mark]

46. Name continents W and Z

W is ----- (1 mark)

Z is ----- (1 mark)

47. a] Name the **latitude** (line) --marked A A----- **(1 mark)**

b] Name African countries that are crossed by that line.

----- **(2 marks)**

48. Name the Mountains marked B ----- **(1 mark)**

49. Name the Sea marked C ----- **(1 mark)**

50. Name one port on the eastern African coast through which Rwandan imports pass?

----- **(1 mark)**

RWANDA NATIONAL EXAMINATIONS COUNCIL



P.O. BOX 39817 KIGALI.- TEL/FAX 8687

Pupil's complete index number

Province

District

Exam centre

Student

PRIMARY LEAVING NATIONAL EXAMINATION 2002-2003

JUINE 2003

ELEMENTARY SCIENCES AND SOCIAL STUDIES

Duration: 2 hours

Marks:

/ 100

Instructions

- Write your index number in full.
- All questions are compulsory.
- Read each question carefully before answering it.

SECTION A

1. Mammals have five senses. Match the organs in list A with the corresponding sense in list B.

<u>List A</u>	<u>List B</u>
a) Nose	Sight
b) Tongue	Smell
c) Eye	Taste
d) Ear	Feeling
	Hearing

(4 marks)

2. Plants have three main parts, roots, stem and leaves.

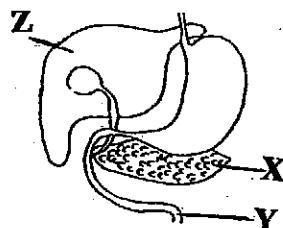
- a) Name one example of a plant whose roots are food to people. **(1mark)**

.....

- b) Name one example of a plant whose stem is food to people. **(1mark)**

.....

3. The diagram below shows part of alimentary canal of a person.



- a) Name the organs labelled X and Y.

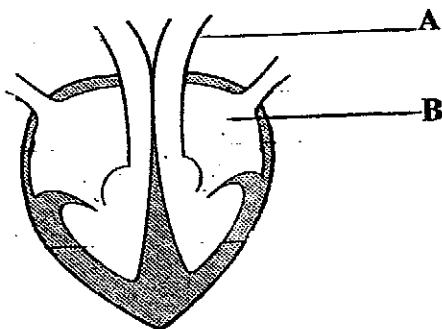
X is **(1mark)**

Y is **(1mark)**

- b) What is the use (function) of Z ? **(1mark)**

.....

4. Study the diagram below of a human heart and answer the questions after it.



a) Name the parts labelled A and B.

A is (1mark)

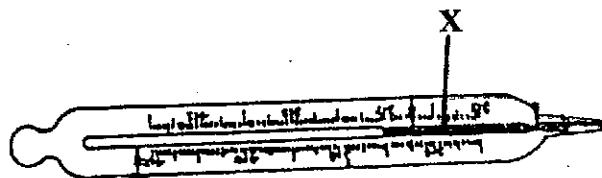
B is (1mark)

b) The blood pumped by the heart to the whole body contains red blood cells and white blood cells. Which of the two types of cells that defend the body against dangerous micro organisms ?

(1mark)

.....

5. The diagram below shows an important instrument.



a) What is the name of the instrument ? (1mark)

b) Name the liquid in the narrow tube X. (1mark)

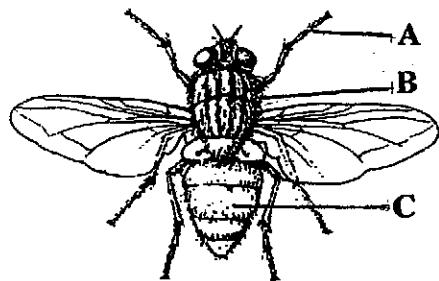
c) What is the use of the instrument ? (1mark)

6. State three biological differences between a plant and a stone.

(3marks)

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

7. The diagram below shows some parts of a house fly.



- a) Name the parts labelled A, B and C. (3marks)

A is

B is

C is

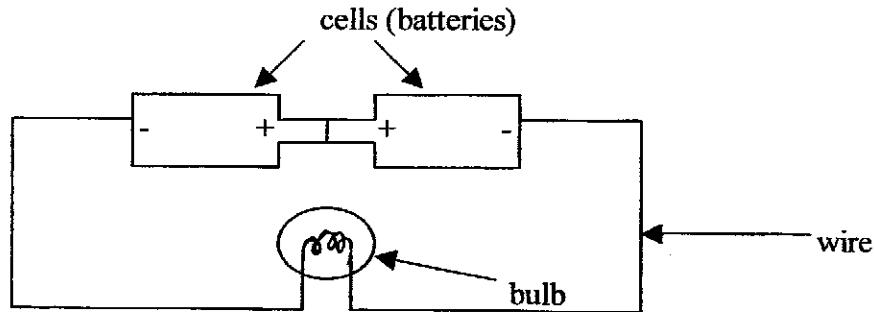
- b) Name one disease that is spread by house flies. (1mark)

.....

- c) State one thing you can do so as to avoid the disease. (1mark)

.....

8. The diagram below is of a simple electric circuit.



- a) What is the use of the wire ? (1mark)

.....

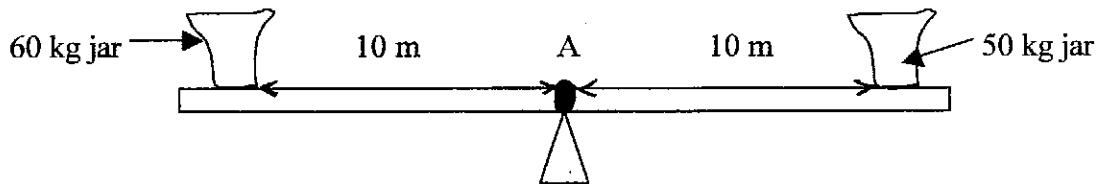
- b) Will the bulb show light? (1mark)

.....

9. When it is raining, people see lightning before they hear thunder. Why ? (1mark)

.....

10. The diagram below is a simple lever system. Each jar is placed 10 m from the pivot A.



- a) Which of the two jars will push the lever down? **(1mark)**

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

11. a) State three important tools that are used in farming. **(3marks)**

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

- b) If you are advised to keep only one cow that produces a lot of milk for selling, which type of cow would you keep? **(1mark)**

.....

12. Maize is grown in many parts of the world because it is used in many ways by people.

State three ways you can prepare maize to feed yourself. **(3marks)**

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

13. People say that AIDS is a killer disease when you have it.

State two pieces of advice you would give to your friends so that they never get AIDS.

(2marks)

.....
.....

14. Give two reasons why soil erosion is very dangerous. (2marks)

.....
.....

15. Match the diseases in list A with the cause of the disease in list B. (4marks)

List A

List B

Malaria

Sharp objects

Dysentery

Mosquitoes

Wounds

Coldness

Pneumonia

Drinking dirty water

From question 16 to 22, answer true if the statement is correct and answer false if the statement is wrong.

16. A person sees his image in a mirror because of reflection. (1mark)

.....

17. An echo is refraction of sound. (1mark)

.....

18. Similar poles of two magnets can attract each other. (1mark)

.....

19. We get heat from the sun through conduction of heat. (1mark)

.....

20. The fertilised egg of a mammal is called a zygote. (1mark)

.....

21. A stone sinks in water because the density of a stone is greater. (1mark)

.....

22. Matter exists in two states. (1mark)

.....

SECTION B

23. What are the names of people who started the following religions? **(2marks)**

- a) Islam
- b) Christianity

24. Name the Head quarters (Holy towns) for the following religions : **(2marks)**

- a) Catholics
- b) Moslims

25. Which are the Two most important commandements that all religions follow? **(2marks)**

.....
.....

26. In Religious books, you are told that Abraham had a son called Isaac. Isaac had two sons.

What were their names ? **(2marks)**

.....

27. Imagine you are the only child at home. State three responsibilities (duties) you would give yourself at home. **(3marks)**

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

28. Imagine you are a class monitor and pupils always make noise when the teacher is not there.

State two things you would do. **(2marks)**

.....
.....

29. Name three basic needs that children must have. **(3marks)**

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

30. In March this year President KAGAME got a medal (reward) for being the best in the world among young Presidents.

a) Which country that is ruled by President KAGAME? **(1mark)**

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

31. There are three organs of a state.

The first one is The Executive.

Name the other two organs . **(2marks)**

.....
.....

32. a) Name the institution that is responsible for collecting tax money from people. **(1mark)**

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

33. Communication between people and between places is very important.

State three types of communication. **(3marks)**

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

34. Which country in the Middle East America started fighting in March this year ? **(1mark)**

.....

35. Mention the colours of the national flag of Rwanda. **(3marks)**

.....

36. Name any two countries in Europe that have ever colonised African countries. **(2marks)**

.....
.....

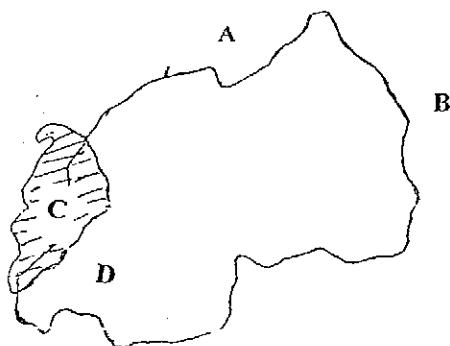
37. Give two problems that the first missionaries faced in Rwanda. **(2marks)**

.....
.....

38. Name two countries in Africa where there was slave trade. **(2marks)**

.....
.....

Study the map of Rwanda below and answer the questions 39 to 44.



39. Name country A. **(1mark)**

A is

40. Name one province bordering Rwanda and country A. **(1mark)**

.....

41. Name the Lake marked C. **(1mark)**

.....

42. Name the river at the border between Rwanda and country B. **(1mark)**

.....

43. Give the name of the forest found in province D. **(1mark)**

.....

44. Name two cash crops grown in Rwanda.

(2marks)

.....
.....

Study the map of Africa and answer questions 45 to 50.



45. Name sea W.

(1mark)

.....

46. Name river Y.

(1mark)

.....

47. Name Lake P.

(1mark)

.....

48. Name ocean R.

(1mark)

.....

49. Name desert N.

(1mark)

.....

50. Name town M.

(1mark)

.....

RWANDA NATIONAL EXAMINATIONS COUNCIL



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PRIMARY LEAVING NATIONAL EXAMINATION 2001-2002

JUNE 2002

ELEMENTARY SCIENCE AND SOCIAL STUDIES

Duration : two hours

Marks :

/100

Instructions :

Write your index number in full.

All questions are compulsory.

Read each question carefully before answering it.

SECTION A

From question 1 to 5, answer true if the statement is correct and answer false if the statement is wrong.

1. Oxygen gas is necessary for burning of things (1 Mark)
2. Liquid is one of the three states of matter (1 Mark)
3. Cutting of trees and making charcoal does not cause any environmental problems.
..... (1 Mark)
4. Aluminium saucepans are good conductors of heat and so it is very dangerous to use them for cooking food. (1 Mark)
5. When a solid changes into a liquid, the process is called boiling (1 Mark)
6. Match the organs in list A with their functions in list B. Each organ should correspond to only one function.

A

Heart

Lungs

Stomach

Uterus

B

Digestion

Blood circulation

Reproduction

Breathing

Movement

(4 Marks
1 Mark each)

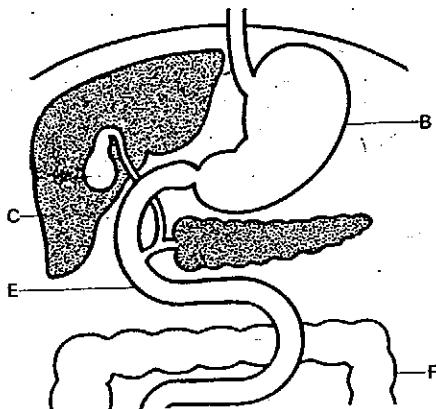
7. Choose the correct word from the brackets and fill in the blank spaces.

(Herbivores, Omnivores, Carnivores, Food chain)

Animals that eat plants only are called whereas
animals that eat meat only are called
When plants are eaten by some animals, and the animals that eat plants are eaten by other animals, the process is called (3 Marks)

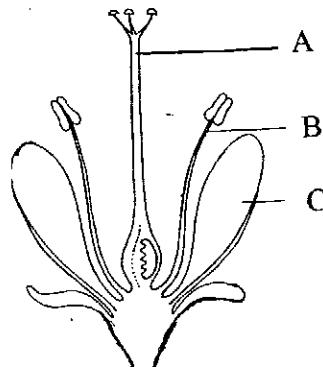
8. Figure 1 below represents part of a digestive system.
Name the parts labelled B, C and F.

(3 Marks)



B is C is F is

9. Figure 2 below represents a flower.



Name the parts labelled A, B, and C. (3 Marks)

A is B is C is

10. Match the germs in list A with the disease they cause in list B.

(3 Marks)

List A

Bacteria

Virus

Fungus

List B

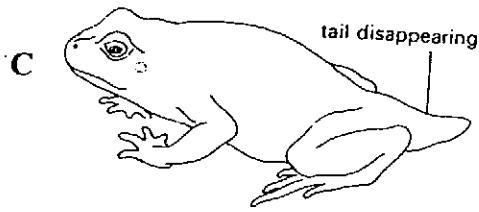
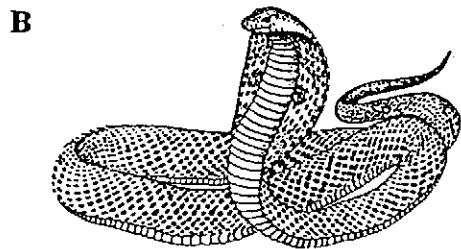
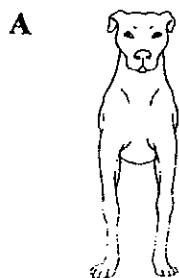
Aids

Tuberculosis

Ringworm

11. Give the names of two diseases that are vaccinated against when children are below five years of age..... (2 Marks)

12. Look at the pictures of some animals below and mention whether each animal belongs to a group of : Mammals, Reptiles, Amphibians, Birds.



A belongs to B belongs to

C belongs to D belongs to (4 Marks)

13. Match the foods in list A with their uses in list B. Each food should correspond to only one use.

List A

Potatoes

Beans

Fruits

Salt

List B

Body building

Energy giving

Provide vitamins

strengthening bones

(4 Marks)

14. Give four reasons why forests must be planted in Rwanda. (4 Marks)

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

15. (a) Give two reasons why agriculture is important to the people of Rwanda.(2 Marks)

.....
.....

- (b) Name two tools that are used in agriculture. (2 Marks)

.....

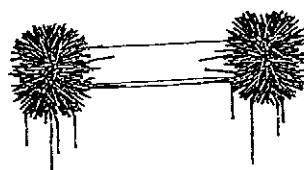
16. Malaria is a common disease in Rwanda and is transmitted by mosquitoes.

(a) Mention three ways of avoiding malaria.

(3 Marks)

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

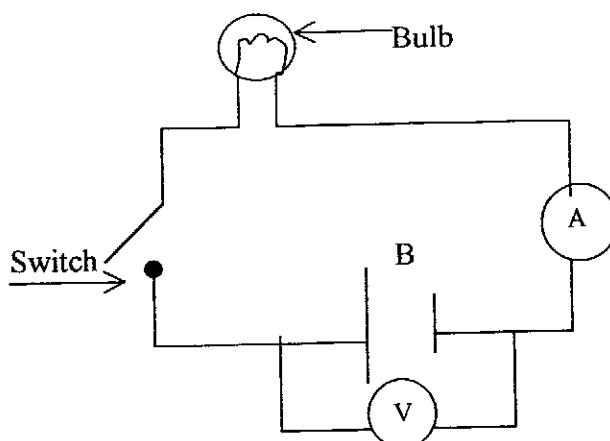
17. A bar magnet is dropped into a box of nails. When the magnet is picked up, some nails stick to the ends as shown.



(a) What material are the nails made from? (1 Mark)

(b) Why do the nails stick to the ends of the magnet? (1 Mark)

18. The following diagram represents a simple electric circuit. Answer the questions after it.

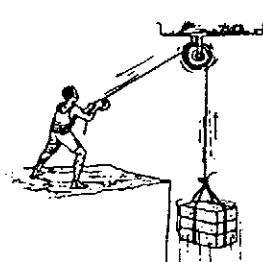


(a) Name the parts A, B, and V.

A is B is V is (3 Marks)

(b) What is use of part A (1 Mark)

19. Look at the diagram below and answer the questions after it.



- (a) What system is the man in the picture using? (1 Mark)
- (b) Mention **one** advantage of using such a system. (1 Mark)

SECTION B

20. Give any **two** names of Rwandese heroes. (2 Marks)
21. What is the name of the present speaker of Rwanda National assembly? (1 Mark)
22. Mention the Headquarters of the following organisations. (2 Marks)
- (a) O.A.U. (b) U.N.O.
- 23.(a) State **two** effects of Genocide that happened in Rwanda in 1994. (2 Marks)
-
.....
- (b) What can the people of Rwanda do so that Genocide doesn't happen again? (2 Marks)
(i)
(ii)
24. Give **one** reason why Americans went to fight in Afghanistan towards the end of the year 2001. (1 Mark)
-
25. What is the new name for Rwandese army? (1 Mark)
26. List **three** problems some children in Rwanda have. (3 Marks)
-
.....
.....
27. State **one** responsibility of each of the following in a family. (2 Marks)
- (a) a mother
(b) a father
28. Give **two** bad effects of drinking too much alcohol (beer). (2 Marks)
-
.....
29. State the **two** most important commandments of God. (2 Marks)
-
.....

30. Name the Headquarter of the following religions. (3 Marks)

- (a) Roman catholic church
- (b) Protestants or Anglican church
- (c) Islam

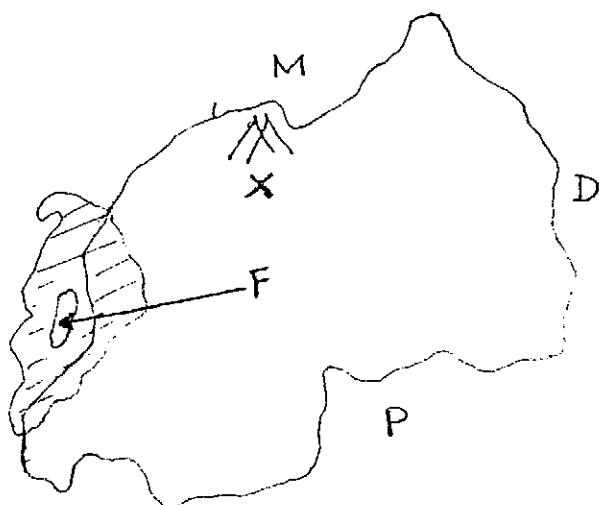
31. On which day of the week do the following go for prayers ? (2 Marks)

- (a) Muslims.....
- (b) Seventh day Adventists

32. (a) Name the volcano in DR Congo (Former Zaire) that erupted in January 2002. (1 Mark)

- (b) State **two** effects that the volcanic eruption had on the people of Goma. (2 Marks)

Study the map of Rwanda below and answer questions 33 to 37. (5 Marks)



33. Name the river between Rwanda and country D.....

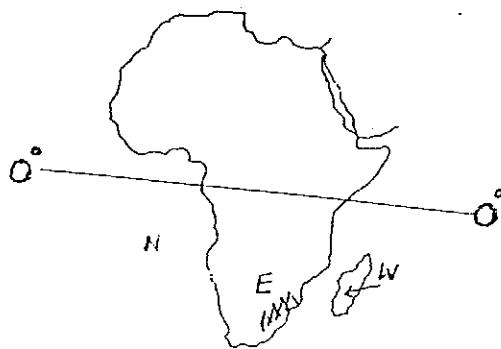
34. Name Country M.....

35. Name the Capital city of Country P.....

36. Which mountain ranges are marked X.....

37. Name the island marked F in Lake Kivu.....

Study the map of Africa below and answer questions 38 to 40.



38. (a) Give the name of line (Latitude) marked O° (1 Mark)
- (b) Name **one** Country through which the line marked O° passes (1 Mark)
39. Name Island marked W (1 Mark)
40. Name the ocean marked N (1 Mark)
41. (a) Name **one** Country in the middle East that produces oil from petroleum. (1 Mark)
.....
(b) Give **one** use of petroleum oil (1 Mark)
42. Name the highest mountain in the world (1 Mark)
43. State any **two** important things the government of Rwanda has done since 1994.
.....
..... (2 Marks)
44. What are the new names for the following administrative units in Rwanda. (2 Marks)
(a) Communes (b) Prefectures
45. Name **two** countries in the Great Lakes region that were colonised by Germany.
..... (2 Marks)
46. What were the following used for in ancient Egypt. (2 Marks)
(a) Pyramids
(b) Papyrus
47. Give **two** effects that slave trade had on African continent. (2 Marks)
.....