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UGANDA MUSLIM TEACHERS’ ASSOCIATION

UMTA JOINT MOCK PRIMARY LEAVING EXAMINATIONS 2015

BASIC SCIENCE AND HEALTH EDUCATION

2 HOURS 15 MINUTES

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| **INDEX NUMBER** |  |  |  |  |  |  |  |  |  |

**NAME………………………………………………SIGN……………………**

**SCHOOL……………………………………………………………………….**

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| **FOR EXAMINER’S USE ONLY** | | |
| **QN.** | **MARKS** | **INITIAL** |
| 1-10 |  |  |
| 11-20 |  |  |
| 21-30 |  |  |
| 31-40 |  |  |
| 41-43 |  |  |
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| 53-55 |  |  |
| **TOTAL** |  |  |

**INSTRUCTIONS TO CANDIDATES:**

1. This paper is made of two sections **A** and **B**
2. Section **A** has **40** questions and **B** has **15** questions.
3. Section **A** carries **40** marks and section **B** carries **60** marks.
4. Answer all questions in the space provided.
5. Answers must be written in blue or black ink.
6. Any handwriting which can not be read will lead to loss of marks.
7. Unnecessary alterations of work may lead to loss of marks.
8. Do not fill any thing in the boxes shown on the right side, it is for Examiners use only.

**SECTION A**

1. State one element of PHC.

**Health Education/Water and Sanitation/Personal hygiene/Immunization/Accidents and first Aid/Food and Nutrition**

1. Name the digestive juice found in the stomach.

**Gastric Juice**

1. Apart from oxygen, give any other component of air.

**Carbon dioxide/Nitrogen/Rare gases**

1. Give one artificial method of family planning.

**Birth control pills/Birth control injections/condoms/I.U.S.Ds/Tubaligation/Vasectomy.**

1. How can bacteria be useful to man?

**Decomposition of organic matter/Fermentation process/making Yoghurt, Vaccines/Fixing Nitrogen into soil.**

C:\Users\ME\Desktop\science images\sci 1.tifUse the foot below to answer the questions that follow.

1. Name the group of birds with such a foot.

**Perching Birds**

1. Where does a cassava plant store its food?

**Root tubers/Roots**

1. Why is dew formed at night?

**Due to condensation of water vapour in the atmosphere.**

1. How does a drum produce sound?

**By vibration of the skin**

1. State the type of vessels that have thick walls and narrow lumen.

**Arteries**

1. Give one way the spread of AIDS can be controlled among the youth.

**Abstaining from sex/condom use/Being faithful to one sexual partner**

1. Mention any one effect of alcohol to the family.

**Poverty/family neglect/Child abuse/Frequent quarrels**

1. Sarah a P.3 girl was playing with her rubber ball, the ball bounced and fell into a clay pot. What advice can you give to Sarah to get her ball back without breaking or falling the pot?

**Sarah should pour in water for the rubber ball to come nearer by floating.**

1. What advice can you give to a mother whose child has the following signs: pot belly, very bright eyes, very thin and face like that of an old person?

**The mother should include foods rich in proteins in the child’s diet.**

1. Why do crop farmers cut off the leaves of banana suckers during transplanting?

**To reduce the rate of transpiration**.

1. How is a moss plant similar to a penicillium mould?

**Both reproduce by spores (Reject Non flowering plants)**

1. Why is it important to have young farmers clubs in the school?

**To train children in Agriculture practices.**

1. How do the people constructing tall buildings protect them against the effects of lightning?

**Putting lightning conductors/trappers/Arrestors.**

The diagram below shows a property of magnets, use it to answer question 19

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1. Name the property shown.

**A freely suspended magnet rests in the North - South direction.**

1. Suggest one way plants and animals depend on each other in the environment.

**Plants get mature from animals /Animals get food /Pasture from plants (Not a comparison question)**

1. State one danger that can be caused by too much carbon dioxide in the environment.

**Global warming**

1. State one way the white blood cells defend the body against germ infections.

**Engulfing the germs**

1. Write down one condition necessary for germination of seeds.

**Moisture /Oxygen /Temperature/warmth (Water is discouraged because it causes rotting of the seed**

1. How are ventilators important on a house?

**Let out warm used air.**

1. Give one reason why the upper part of a hutch is made with a wire mesh.

**To allow free circulation of air.**

1. Why is a clinical thermometer bulb put under the tongue when finding body temperature in children?

**For even expansion of mercury.**

1. State any one characteristic of living things.

**Reproduce /Respire /Grow/Move/excrete (Reject die/death reason dead things are not living)**

1. Why is it not advisable to put out petrol fire using water?

**Petrol floats on water and spreads the fire.**

1. How is a strip cup useful to a cattle keeper?

**Used to detect mastitis in milk.**

1. Apart from boiling, state any other way you can make water safe for drinking.

**Chlorination / water guard.**

1. In the space below, draw a fibrous root system.
2. Suggest one way you use wind as an energy resource.

**Winnowing / Snailing boats /Kite flying / Wind mills**

The diagram below shows the immunization sites. Use it to answer questions 33 and 34.

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1. Name the vaccine given at part marked **M**

**Measles vaccine (Reject measles)**

1. At what age is the vaccine at **T** administered?

**At birth**

1. State one way you can help sick people in your home

**Taking them to hospital /cooking for them food/washing clothes for them.**

1. Where are the ova produced in females?

**In the Ovary**

1. How do hook worms enter our bodies?

**Through penetrating the bear skin.**

1. State one foodstuff that can be used for weaning babies.

**Soya Porridge/Porridge with milk/Mashed Irish potatoes.**

1. Why is it necessary to keep the environment clean?

**It prevents the spread of diarrhea/diseases/Bad smells/Flies.**

1. State one activity that can be carried out at home to control vectors.

**Sweeping the compound/picking the rubbish/smoking the pit Latrines.**

**SECTION B**

1. (a) Who is passive smoker?

**A person who inhales tobacco smoke indirectly.**

(b) Give one reason why people smoke.

**Peer influence/To feel confident/To fee warm/To look mature/Addiction /To relax**

(c) What advice can you give to your friend who is a smoker to stop the habit?

**Avoid smoking groups /peers/participation in health life style games.**

(d) Name the body organ that is mainly affected by tobacco smoke.

**Lungs**

1. C:\Users\ME\Desktop\science images\sci 4.tif The diagram below shows a torch. Use it to answer the questions that follow.
2. Name part marked **Y**.

**Spring**

1. How is part marked **X** useful to the torch user?

**Completes and breaks the circuit at one’s will.**

1. Why is it not necessary for a torch to have a fuse?

**A torch has stable flow of electric current.**

1. State any one factor that can fail a new bulb to give light in a torch when the switch is closed.

**Exhausted dry cells /Poor arrangement of dry cells/Poor fixing of the bulb.**

1. (a) Mention two man made changes in the environment.

**Road construction /quarry/Deforestation/Swamp**

(b) State two effects of man made changes in the environment.

**Pollution/Drought/Floods**

1. (a) What are foreign bodies?

**Foreign bodies are external materials that enter our bodies through natural openings.**

(b) Give one effect of foreign bodies.

**Death/Injury/wounds/Suffocation**

(c) State one foreign body that can enter the eyes.

**Dust /soil/insects/small insects/oil**

1. What first aid can you give to a person who has foreign body in the eyes?

**Wash the eyes with clean water**

1. C:\Users\ME\Desktop\science images\sci 5.tifThe diagram below shows the digestive system of man. Use it to answer the questions below.
2. Name part market **T**.

**Appendix**

1. What happens when food reaches the following body parts?
2. Part **P**? **Absorbed / Digested.**
3. Part **Q**? **Passed out as waste**
4. State one enzyme produced by part marked **N**.

**Trypsin/Lipase/Amalyse.**

1. (a) Why would you classify a mosquito as an invertebrate?

**Mosquitoes have no back bone.**

(b) Apart from arthropods, mention any one other group of invertebrates.

**Molluscs/Echinoderms/Coelentrates/sponges**

1. How are all the arthropods similar?

**Segmented bodies/joined legs.**

1. Under what group of arthropods is a centipede?

**Myriapodes**

1. (a) State two methods that can be used to prepare food for eating.

**Cooking/Roasting**

(b) Write down one way food can get contaminated.

**Dirty hands/dirty containers/uncovered/serving dirt plates**

1. Give a reason why some families do not have enough food to eat

**Poverty /Drought /Floods/Shortage of land/Laziness.**

1. C:\Users\ME\Desktop\science images\sci 6.tifThe diagram below shows a light ray striking a plane mirror at an angle. Use it to answer the questions that follow
2. Name ray marked **B**.

**Incident ray**

1. Why is angle x referred to as the angle of reflection?

**Angle X is between the normal and reflected ray.**

1. Identify any one characteristic of images formed on a plane mirror.

**Images are real/Laterally inverted/at the same distance as the object.**

1. Why are we able to see the objects that are not sources of light?

**Objects reflect light to our eyes.**

1. Define the following terms
2. Pruning

**Is the removal of excess branches.**

1. Terracing

**Digging water channels in the garden that reduces the speed of running water.**

1. Thinning

**The removal of weak and poorly growing seedlings /plants from the garden.**

1. Transplanting

**Is the transfer of seedlings from a nursery bed to a main garden.**

1. (a) What is respiration?

**Respiration is the oxidation of food to release energy.**

(b) Where does respiration take place in the body?

**In the body cells**

1. State one by-product of respiration.

**Carbon dioxide/water vapour.**

1. How are the lungs involved in the process of respiration?

**Lungs provide Oxygen to body cells**

1. (a) State any one type of stems.

**Underground stems/upright stems/weak stems**

(b) What is the main characteristic of stems?

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1. Give one use of stems to;
2. A plant: **Transportation of water /mineral salts/store food for some plants.**
3. Man : **Food/Timber/Fire wood/Poles**
4. (a) How is a dip tank useful to a cattle keeper?

**For dipping cattle to control cattle parasites (external parasites control)**

(b)What name is given to the chemicals put in a dip tank?

**Acaracides**

1. Why is a dip tank made narrow?

**To enable the animal come out easily**

1. Besides a dip tank, what other structure can you use on a livestock farm to carry out the same function?

**Spray knap/spray race**

1. List down one long bone and one flat bone in the body
2. Long bone: **Femur Humerus/Radius/Ulna/Tibia/Fibulla**
3. Flat bone: **Bones of the skull/Sature bones/bones of fingers and Toes**
4. Suggest one way the skeleton is important to the body.

**Protection of delicate parts /movements/Body shapes/manufacture of body cells**

1. State one injury that can affect the skeletal system

**Fracture /wounds/cuts/strains/sprains/scalds**

1. (a) Name one state of matter.

**Gas state Water vapour/steam**

**Liduid Water**

**Solids Ice**

(b) What name is given to water in the state of matter you have mentioned in (a) above?

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1. How does heat affect matter?

* **Heat melts matter**
* **Heat slicles matter**
* **Expands**
* **Makes matter reduce weight.**

1. Write down any one property of matter.

**Matter has volume /weight/Mass/Occupies space**

1. C:\Users\ME\Desktop\science images\sci 7.tifUse the structure to answer the questions about it.
2. Which term can be used to describe the structure?

**Soil profile**

1. Name layer marked **W**.

**Parent rock**

1. Why is layer marked **M** considered the best for crop growing?

**Top layer**

1. Which component of soil formed as a result of weathering of rocks?

**It’s fertile / has humus**

**END**