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# COUNTY MOCK EXAMS-STD 8 2016

## SCIENCE PAPER

Coordinated by KENPRO,  
Macjo Arcade, 4th Floor, Suite 15E,  
Off Magadi Road, Ongata Rongai |Tel: +254202319748 |  
E-mail:infosnkenya@gmail.com | Website:[www.schoolsnetkenya.com](http://www.schoolsnetkenya.com)

# SIAYA COUNTY MOCK

## STANDARD EIGHT-YEAR 2016

### SCIENCE

Time: 1 hour 40 minutes

#### INSTRUCTIONS TO CANDIDATES (Read these instructions carefully.)

1. You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
2. Do any necessary rough work in this booklet.
3. When you have chosen your answer, mark it on the ANSWER SHEET, not in this question booklet.

#### HOW TO USE THE ANSWER SHEET

4. Use only an ordinary pencil.
5. Make sure that you have written on the answer sheet.

YOUR INDEX NUMBER  
YOUR NAME  
NAME OF YOUR SCHOOL

6. By drawing a line on the correct numbered ellipses (small oval shapes) mark your full Index Number (i.e School Code Number and three-figure Candidate's Number) in the grid near the top of the answer sheet.
7. Do not make any marks outside the ellipses.
8. Keep the sheet as clean as possible and do not fold it.
9. For each of the questions 1 - 50 four answers are given. The answers are lettered A, B, C, D. In each case only ONE of the four answers is correct. Choose the correct answer.
10. On the answer sheet show the correct answer by drawing a line on the ellipse in which the letter you have chosen is written.

#### Example

##### In the Question Booklet:

7. Which one of the following is not true of both birds and reptiles? Both:-  
A. have external fertilization.  
B. breath by lungs.  
C. lay eggs.  
D. Have scales.

The correct answer is A  
On the answer sheet:

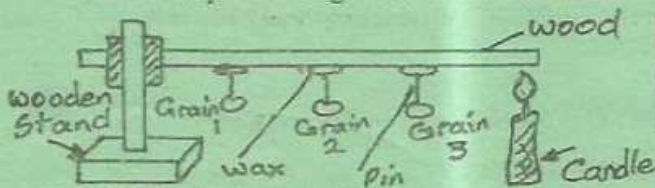
7.  [A] [B] [C] [D]    8. [A] [B] [C] [D]    9. [A] [B] [C] [D]    10. [A] [B] [C] [D]

In the third set, a line is drawn within the letter B

11. Your dark line MUST be within the letter.
12. For each question, ONLY ONE ellipse is to be drawn a line in each set of four ellipses.

TURN OVER

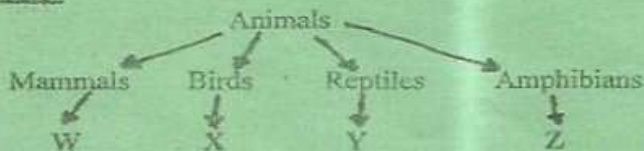
- Which of the following is a natural way of lighting a house?
  - Torch
  - Translucent roofs
  - Electricity
  - Fire
- At which stage of HIV infection does an infected person test positive, but there are no visible signs and symptoms?
  - Window stage
  - Full blown
  - Incubation
  - Symptomatic stage
- Std 5 pupils used a rubber sheet to make a model of the breathing system. Which part would rubber represent?
  - Diaphragm
  - Trachea
  - Rib cage
  - Lungs
- Below is a setup to investigate conduction in solids.



Which of the above grains fell first?

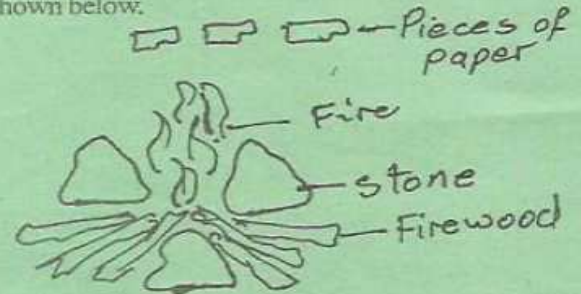
- Grain 1
  - Grain 2
  - All grains fell at the same time
  - None of the grains fell
- The following are the functions of placenta except one. Which one is it?
    - Facilitates exchange of food nutrients from the mother to foetus
    - Allows mother's blood and foetus blood to mix
    - Facilitates exchange of gases between the mother and the foetus
    - Prevents harmful chemicals from reaching the foetus
  - Which of the following is NOT an excretory product?
    - Urine
    - Sweat
    - Faeces
    - Carbon dioxide
  - Green plants depend on each other for the following except \_\_\_\_\_.
    - support
    - food
    - shade
    - habitat

**Study the chart below and answer questions that follow**



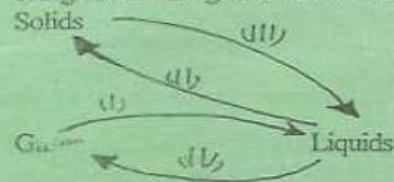
- The animals that can correctly represent W, X, Y and Z respectively are \_\_\_\_\_.
  - Shark, bat, crocodile, toad
  - Whale, eagle, alligator, newt
  - Pig, bat, snake, newt
  - Cow, eagle, lizard, frog

- Which plants below have fibrous root system?
  - Cabbage, grass, acacia
  - Peas, beans, groundnuts
  - Onion, sugarcane, rice
  - Rice, beans, mangoes
- Std. 5 pupils threw small pieces of paper on fire as shown below.



The pieces of paper did not burn because \_\_\_\_\_

- pieces of paper were so light
  - hot air rises up
  - cold air rises up
  - of radiation from the fire
- The main reason why plants growing in wet areas have flexible stems is to-
    - absorb water and mineral salts
    - support and balance in water
    - increase water loss
    - prevent breakage due to water currents
  - The processes (i), (ii), (iii) and iv in the chart below bring about changes in state of matter?

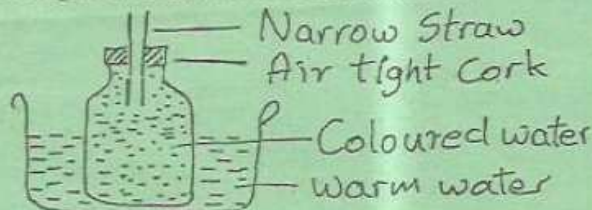


The processes that require increase in temperature are

- ii, iv
- i, ii
- iii, iv
- i, iii

- The following are characteristics of matter:
  - Have definite shape
  - Have definite volume
  - Have no definite shape
  - Take the shape of the container
  - Have no definite volume
  - Have definite mass
 Which characteristics represent gases?
  - i, ii, vi
  - ii, iii, iv
  - i, iii, v
  - iii, v, vi
- Which of the following shows the correct stages of foetus development?
  - Zygote - foetus - embryo - baby
  - Zygote - embryo - foetus - baby
  - A embryo - foetus - zygote - baby
  - Foetus - zygote - embryo - baby

15. Simple tools can be maintained in various ways. Which of the following ways listed below is not a way of maintaining them?  
 A. Cleaning after use  
 B. Repairing broken handles  
 C. Storing tools safely  
 D. Lubricating moving parts of a machine
16. The diagram below was set up by std 6 pupils to investigate a certain effect of heat on matter.

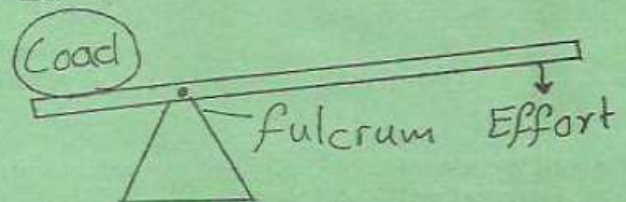


- The property investigated was that \_\_\_\_\_  
 A. liquids expand when heated  
 B. liquids occupy space  
 C. air expands when heated  
 D. liquids have definite volume
17. Which one of the following is a compound fertilizer?  
 A. Calcium ammonium nitrate  
 B. Sulphate ammonia  
 C. Triple super phosphate  
 D. Di ammonium phosphate
18. The soil which is good for construction also:-  
 A. has a rough texture B. is good for farming  
 C. has few air spaces D. is good in capillarity
19. Which of the following helps in transportation of digested food and salts to various body parts?  
 A. Hemoglobin B. Plasma C. Red cells D. Platelets
20. Std 4 pupils performed the experiment shown below. The component of soil they were investigating was

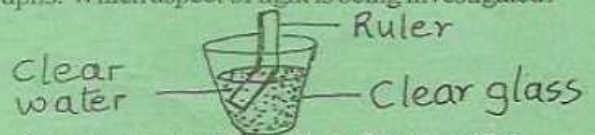


- A. air B. humus C. living things D. water
21. Which of the following processes is NOT an essential constituent of commercial animal feeds?  
 A. Water B. Vitamins C. Proteins D. Carbohydrates
22. Which of the following is a component of the environment that is present in all living things and non-living things?  
 A. Plants B. Water C. Animals D. Air
23. Which one of the following shows the 4th and 7th planets from the sun?  
 A. Mars, Uranus B. Jupiter, Neptune  
 C. Venus, Neptune D. Jupiter, Uranus
24. In which one of the following methods of grazing are movable fences used?  
 A. Paddock grazing B. Stalk feeding  
 C. Strip grazing D. Herding

25. Which one of the following is a list of only foods that boost the body immune system?  
 A. Spinach, guavas, oranges  
 B. Oranges, chapatis, kales  
 C. Fish, chips, roasted maize  
 D. Beef, eggs, rice
26. Which of the following statements about HIV infected persons is correct?  
 A. Can only be taken care of by health workers  
 B. Need to visit hospitals for cure  
 C. Should be provided with a balanced diet  
 D. Should be discouraged from playing with others
27. Which of the following groups consists of non-flowering plants only?  
 A. Moss, grass, pine B. Fern, algae, pine  
 C. Moss, algae, cabbage D. Cabbage, grass, fern
28. Which of the following methods of food preservation preserves food by keeping off air and germs?  
 A. Deep freezing B. Sun frying  
 C. Salting D. Canning
29. When an iron plate is placed on a basin of water it floats. This is because of its \_\_\_\_\_  
 A. size B. shape  
 C. volume D. type of materials
30. Which one of the following materials cannot dissolve in water?  
 A. Maize flour B. Sugar C. Glucose D. Salt
31. Which of the following animals belong to the same group as a housefly?  
 A. Spider B. Ant C. Crab D. Millipede
32. Which of the following is most effective method of controlling weeds?  
 A. Slashing B. Uprooting  
 C. Digging them up D. Using chemicals
33. The diagram below shows a simple machine when in use.



- Which pair of machines belong to the same class of levers?  
 A. Lid opener and wheelbarrow  
 B. Scissors and claw hammer  
 C. Wheelbarrow and bottle opener  
 D. Fishing rod and spade
34. The diagram below shows a setup used by std 6 pupils. Which aspect of light is being investigated?



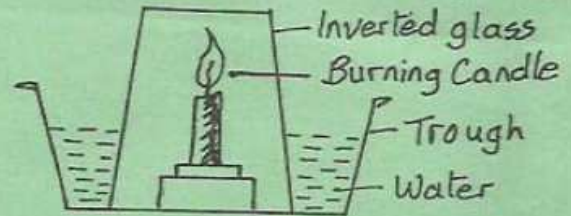
- A. Bouncing back of light B. Reflection of light  
 C. Dispersion of light D. Refraction of light

35. Which of the following parts of vertebrate lay fertilized eggs and breath through the lungs?  
 A. Amphibians and fish B. Birds and reptiles  
 C. Fish and birds D. Mammals and amphibians
36. The following are signs and symptoms of a certain disease:  
 (i) Itchiness in the bladder  
 (ii) Coughing and diarrhea  
 (iii) High fever  
 (iv) Blood stained urine  
 The disease is likely to be :-  
 A. Bilharzia B. Cholera C. Malaria D. Typhoid
37. The diagram below represents a thermometer.



- The main purpose of the part labelled X is to \_\_\_\_\_  
 A. store mercury  
 B. make mercury easily visible  
 C. prevent the backflow of mercury before reading  
 D. create room expansion
38. In certain investigation, pupils used a straight pipe to observe a candle flame. They then bent the pipe and observed again. Which aspect of light was being investigated?  
 A. Formation of shadows B. Uses of light  
 C. How light travels D. Sources of light
39. Force can do the following except  
 A. stop a motion  
 B. speed up motion  
 C. change the state of matter of an object  
 D. change directions of a moving object
40. Pressure exerted in liquids is determined by:-  
 A. volume of the liquid B. size of holes used  
 C. height of the liquid container D. depth of the liquids
41. Which of the following does NOT have chemical energy?  
 A. Moving water B. Wood  
 C. Dry cells D. Car battery
42. Which of the following statements is correct according to immunization schedule of infants?  
 A. The first dose of polio is given at 6 weeks  
 B. DPT vaccine is given at birth and 10 weeks  
 C. DPT and measles vaccines are given at 14 weeks  
 D. Polio and BCG vaccines are given at birth
43. The following are characteristics of a certain plant:  
 \* Shallow roots  
 \* Leaves with thin cuticles  
 \* Leaves with hair like  
 Which of the following plants does NOT belong to the group of plants above?  
 A. Waterlily B. Euphorbia  
 C. Buttercup D. Papyrus

44. Which of the following is NOT correctly matched with its function?  
 A. Oesophagus - passage of food  
 B. Stomach - mixes food with enzymes  
 C. Small intestines - completes digestion of food  
 D. Large intestines - absorbs digested food
45. The setup below was used by pupils in std 7 at Chwele Boys primary to investigate a certain property of matter.



- What was the conclusion from the observation made?  
 A. Air occupies space  
 B. Water will rise in the glass  
 C. Parts of air is used in combustion  
 D. The candle went off after some seconds
46. During a science lesson pupils of Std 7 from Kaptanai primary mixed the following solids with water: pebbles, salt and flour. In order to separate them, the most important factor to consider is:  
 A. the temperature of the water  
 B. amount of water and solids  
 C. solubility of the solids and size  
 D. density of the water and solids
47. Which of the following substances below would form a uniform layer if put in a container, shaken and allowed to settle?  
 A. Milk and petrol B. Methylated spirit and milk  
 C. Petrol and water D. Milk and kerosene
48. Which of the following is NOT caused by hard water?  
 A. Fur B. Scum  
 C. Leaching D. Clogging of pipes
49. A class eight pupil saw a bird with short straight, thick and strong beak. The bird was not likely to be:-  
 A. hawk B. quelea birds C. chicken D. turkey
- 50.



- Which one of the following would NOT be observed in the experiment above?  
 A. Bubbles in the basin  
 B. Drop of ink moving towards water in the basin  
 C. Water level in the basin decreasing when heating is stopped  
 D. Water level in the glass tube decreasing when heating is stopped