
COUNTY MOCK EXAMS-STD 8 2016

SCIENCE PAPER

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KIRINYAGA 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:
9. The moving cooler air is called _____:-
A. steam
B. evaporation.
C. wind.
D. smoke.

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

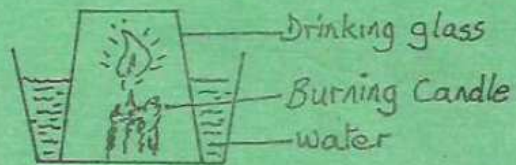
11. Your dark line MUST be within the letter.
12. For each question, ONLY ONE ellipse is to be drawn a line in each set of four ellipses.

TURN OVER

- Which of the following mainly pests attack seedlings?
A. Stalkborers B. Cutworms C. Aphids D. Mice
- Which one of the following is an adaptation of plants in dry areas?
A. Broad leaves B. Flexible stems
C. Thin cuticle D. Thick waxy cuticle
- The first set of teeth of a baby are known as _____
A. molars B. milk teeth
C. wisdom D. permanent teeth
- In the diagram below the parts marked MNP & O collectively are known as _____



- A. calyx B. stamen C. carpel D. corolla
- The following are essential constituents of commercial animal feeds except _____
A. carbohydrates B. water
C. vitamins D. proteins
- The extent of loudness or softness of a sound is called
A. echo B. pitch C. noise D. volume
- The function of valves in the veins is to _____
A. push blood forward
B. push blood backwards
C. stop blood from flowing backwards
D. pump blood to the lungs
- Digestion of starch starts in the _____
A. stomach B. small intestine
C. colon D. mouth
- The bouncing back of light when it hits smooth shiny object is called _____
A. reflection B. diffraction
C. refraction D. dispersion
- Standard 6 pupils noticed some small holes forming under tree due to falling of raindrops. This type of erosion is called _____
A. sheet erosion B. gulley erosion
C. rill erosion D. splash erosion
- The diagram below represents a set up that can be used to demonstrate a certain property of air



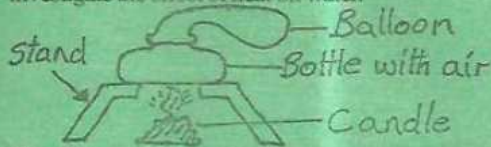
- Which property of air is demonstrated?
A. Air occupies space
B. Air exerts pressure
C. Part of air is used in burning
D. Air expands when heated
- When an object is thrown up in the air it falls because it _____
A. is pulled by the earth B. exerts pressure
C. is resisted by air D. is as heavy as air
 - The first stage during the process of birth in human beings is the _____
A. bursting of amnion B. contraction of uterus
C. foetus turns in the uterus D. release of the after birth
 - Dry grass, kitchen refuse, ashes and plant remains can all be used to make one of the following manures. Which one?
A. Inorganic manure B. Farm yard manure
C. Compost manure D. Green manure
 - The diagram below shows an improvised water filter
-
- The diagram shows a vertical container acting as a water filter. From top to bottom, the layers are: Dirty water, Charcoal, Fine Sand, Coarse sand, Pebbles, and Cotton wool. Labels include 'Dirty water', 'Charcoal', 'Fine Sand', 'Coarse sand', 'Pebbles', and 'Cotton wool'.
- The pupils arranged the materials as shown, but they did not collect clean water. Which one explains why they did not get clean water? The _____
A. coarse sand should be placed before the sand and charcoal
B. fine sand should be placed between the dirty water and charcoal
C. water was very dirty
D. solids change state when heated
- Which one of the following fluids is used in testing a person for HIV?
A. Sexual fluid B. Blood
C. Semen D. Saliva

17. The fodder crops that is cut and conserved while still green is called _____
 A. silage B. hay C. pasture D. concentrate
18. Which part is NOT found in dermis of the skin?
 A. Hair B. Sweat pore
 C. Sweat glands D. Nerve ending

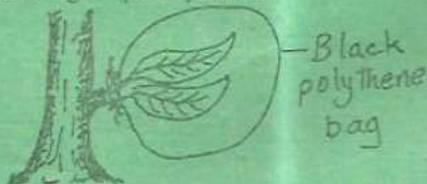
19. The chart represents changes of matter
- SOLID $\xrightarrow{\text{I}}$ LIQUID $\xrightarrow{\text{IV}}$ GAS
 SOLID $\xleftarrow{\text{II}}$ LIQUID $\xrightarrow{\text{III}}$ GASES
- Which of the following correctly represents the processes?

I	II	III	IV
A. Melting	freezing	evaporation	condensation
B. Condensation	evaporation	melting	freezing
C. Evaporation	melting	freezing	condensation
D. Melting	freezing	condensation	evaporation

20. A beam balance is used for _____
 A. measuring volume of objects
 B. comparing mass of different objects
 C. measuring height of objects
 D. comparing size of different objects
21. The diagram below shows a set up that can be used to investigate the effect of heat on water.

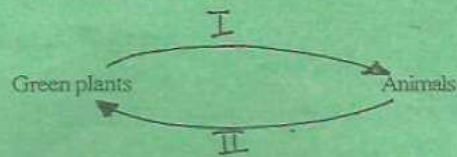


- The effect investigated is _____
 A. gases change state when heated
 B. solids expand when heated
 C. gases expand when heated
 D. solids change state when heated
22. The reason why improved jikos have a clay lining is to
 A. reduce the amount of heat loss
 B. reduce the space for charcoal
 C. make charcoal light faster
 D. make the jiko last longer
23. Std 5 pupils set up the experiment below to investigate the use of light in photosynthesis



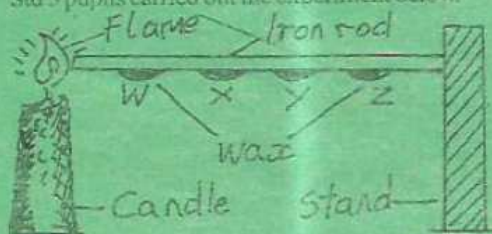
After two days they observed that _____

- A. the leaf had turned yellow
 B. the leaf had turned dark green
 C. the leaf had not changed colour
 D. the other leaves not tied had started falling off
24. Which disease can be prevented by eating green leafy vegetables?
 A. Kwashiorkor B. Anaemia
 C. Rickets D. Marasmus
25. What will be the first step to separate a mixture of salt, sand and water?
 A. Decantation B. Filtering
 C. Dissolving D. Evaporation
26. The process by which the xygote attaches itself to the thick uterine wall is called _____
 A. fertilisation B. copulation
 C. implantation D. conception
27. The sticky yellow substance that forms on teeth if not brushed regularly is _____
 A. gingivitis B. bad smell C. plaque D. dental carries
28. The component of blood which carries carbon dioxide is _____
 A. white blood cells B. platelets
 C. red blood cells D. plasma
29. Below are parasites and part of body they attack. Which one is wrongly matched?
 A. Lungworm - stomach B. Liverfluke - liver
 C. Tapeworm - ileum D. Roundworm - colon
30. Which one is NOT a nitrogen fertilizer?
 A. Sulphate of Ammonia B. Urea
 C. Bone meal D. Calcium of Ammonia
31. The chart below show how animals and green plants benefit from each other

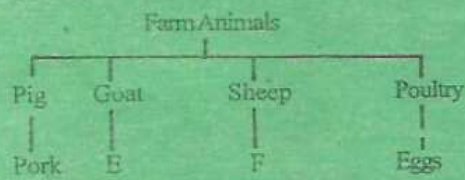


- Arrows I and II represent _____ and _____ respectively
 A. Food and manure
 B. Carbon dioxide and oxygen
 C. Nitrogen and animal waste
 D. Oxygen and nitrogen

32. In which of the following is water used sparingly?
 A. Harvesting rainwater for animals to drink
 B. Using water collected in a dam
 C. Recycling waste water from factories
 D. Turning off water taps after use
33. Which group consists only of parts of human body where digestion takes place?
 A. Mouth and stomach B. Colon and ileum
 C. Colon and liver D. Large intestine and mouth
34. In a certain investigation on soil, pupils heated soil in a container until smoke was produced. This was to investigate presence of _____
 A. air in soil B. organic matter in soil
 C. water in soil D. living organisms
35. Which one is true about soil that has high water retention? It has _____
 A. large air spaces B. low capillarity
 C. fine texture D. large particles
36. Which one is an effect of soil pollution?
 A. Death of small animals
 B. Formation of acid rain
 C. Interferes with photosynthesis
 D. Causes respiratory diseases
37. A plant which has deep and widely spread root system is likely to have _____
 A. broad leaves B. many leaves
 C. succulent stems D. weak stems
38. A fish is able to float on water mainly because of _____
 A. fins B. lateral lines
 C. swim bladder D. scales
39. The following are sexually transmitted infections. Which one has signs where person feels pain while urinating and pus may be observed coming out of the urethra?
 A. Syphilis B. Chaneroid
 C. Gonorrhoea D. HIV/AIDS
40. Which one is NOT a health effect of drug abuse?
 A. Fits B. Marital conflicts
 C. Impaired judgement D. Mental illness
41. Std 5 pupils carried out the experiment below.



- What were the pupils investigating?
 A. Expansion in metals B. Convection on wax
 C. Conduction in metals D. radiation
42. An axe can BEST be maintained through _____
 A. painting B. sharpening C. oiling D. washing
43. One of the following excretory products is removed by all the excretory organs. Which one is it?
 A. Urea B. Carbon dioxide
 C. Excess water D. Excess salt
44. In which of the following cases is friction a disadvantage?
 A. Grinding maize B. Writing
 C. Bird flying D. Braking
45. Which one of the following is an example of inner planets?
 A. Mars B. Saturn C. Jupiter D. Neptune
46. Which one is NOT caused by hard water?
 A. Clogging pipe B. Scum
 C. Scale D. Bleaching
47. For the formation of quality milk, a lactating mother requires enough intake of _____
 A. carbohydrates B. proteins
 C. minerals D. fruits
48. The temperature at which a substance condenses is the same temperature at which the substance _____
 A. freezes B. melts C. evaporates D. solidifies
49. The chart below shows some farm animals and their products.



- Which products are represented by E and F?
 E F
 A. Milk wool
 B. Wool mutton
 C. Beef milk
 D. Milk beef
50. Which plant stores food in the stem?
 A. Carrot B. Irish potato
 C. Sweet potato D. Onion