

KENYA LINK

TOP GRADE CODE 1

SCIENCE

STD 8
TERM I 2012

TIME: 1 HR 40 MINS

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 the question paper.

HOW TO USE THE ANSWER SHEET

4. Use an ordinary pencil only.
5. Make sure that you have written on the answer sheet
YOUR INDEX NUMBER
YOUR NAME
NAME OF YOUR SCHOOL
6. By drawing a **darkline** inside the correct number boxes mark your full Index Number (i.e. School Code Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
7. Do not make any marks outside the boxes
8. Keep your answer sheet as clean as possible and **DO NOT FOLD IT**.
9. For each of the Questions 1-50 four answers are given. The answer lettered **A,B,C,D**, in each case only **ONE** for the answers is correct. Choose the correct answers.
10. On the answer sheet show the correct answer by drawing a dark line inside the box in which the letter you have chosen is written.

EXAMPLE

1. Which one of the following is a perennial crop?

- A. Rice B. Tobacco C. Banana D. Cotton

The correct answer is C (Banana)

On the answer sheet:

1. [A] [B] ~~[C]~~ [D] 11. [A] [B] [C] [D] 21. [A] [B] [C] [D] 41. [A] [B] [C] [D]

In the set of boxes numbered 1, the box with the letter B printed in it is marked

11. Your dark line **MUST BE** within the box

12. For each question **ONLY ONE** box is to be marked in each set of four boxes

TURN OVER

KENYA LINK TOP GRADE CODE 1

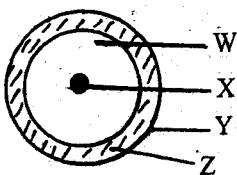
SCIENCE STD 8 TERM I 2012

- What is the correct stage of development after fertilization to birth?
 - Zygote => embryo => foetus => baby
 - Zygote => foetus => embryo => baby
 - Embryo => zygote => foetus => baby
 - Embryo => foetus => zygote => baby
- Which one is not a function of the amniotic fluid?
 - Absorbs shock
 - Allows free movement of the foetus
 - Protects the foetus from getting hurt
 - Allows exchange of gases
- What is the major function of the skin as an excretory organ?
 - Protects the inner parts of the body
 - Removes excess water
 - Removes excess carbon dioxide
 - Excretes urea
- Sexually transmitted diseases can easily help in the spread of HIV/AIDS infection. Which is the best method to prevent STIs amongst the unmarried?
 - Treatment of the infected people
 - Having sex with only one infected partner
 - Sexual abstinence
 - Avoid sexual conduct with infected person
- Which plant adapts to dry areas because of its succulent leaves?

A. Acacia	B. Sisal
C. Euphorbia	D. Baobab
- Which one of the plants below is a mesophyte?

A. Beans	B. Water lily
C. Euphorbia	D. Rice

7. Below is a diagram of a female reproductive cell? Which is the part marked X?



- | | |
|---------|------------|
| A. York | B. Ovum |
| C. Head | D. Nucleus |

- What is common of a duck and a frog?

A. Cold blooded	B. Scales
C. Webbed feet	D. Live in water

- The following are signs of a ill cow. Which one is the least?

A. Rough coat	B. Stunted growth
C. Inactivity	D. Mowing
- What is the principle behind the working of a wind vane?
 - Air expands and contracts
 - Air makes things to move
 - Air occupies space
 - Air can change size
- A planet has the following characteristics:
 - It is the hottest
 - It is the smallest
 - Takes the shortest time to revolve round the sun
 Which planet is described above?

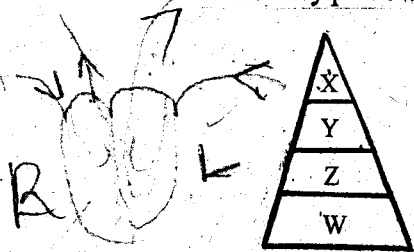
A. Mercury	B. Venus
C. Earth	D. Pluto
- Digestion system starts in the mouth. What is not true of what happens in the mouth?
 - Starch is digested
 - Food is mixed with saliva
 - Proteins are digested
 - The surface area of food is increased
- During adolescence, boys and girls experience physical changes. What girls experience enlargement of hips, what do boys experience?

A. Deepened voice	B. Mature sperm
C. Pimples on face	D. Enlarged chest
- Which statement is true of the circulatory system of a mammalian heart?
 - The upper chambers receive oxygenated blood
 - The left chambers circulate oxygenated blood
 - The ventricles receive blood from different parts of the body
 - All veins carry de-oxygenated blood

- The table below shows differences of insect and wind pollinated flowers. Which one is wrongly stated?

Insect pollinated flowers	Wind pollinated flowers
A. Large in size	Small in size ✓
B. Produce small amount of pollen grains	Produce large amount of pollen grains ✓
C. Have scent	Have no scent ✓
D. Feathery stigma	Flat sticky stigma

16. Std 7 class drew the chart below to show a food chain population of each component. Where could they place a zebra?



- A. Z B. Y
C. W D. X

17. Among the pests below which one damages crop yields by boring?

- A. Moles B. Weevils
C. Weaver birds D. Aphids

18. Class seven pupils were asked to give examples of food chains. Which example is incorrect food chain?

- A. Nectar => bee => chameleon => owl
B. Kales => chicken => snake => eagle
C. Grass => caterpillar => lizard => snake => hawk
D. Grasshopper => bird => snake => kite

19. The following are rotational methods of grazing except

- A. Paddockging B. Strip grazing
C. Stall feeding D. Tethering

20. Which type of animal feed is the odd one out?

- A. Creep pellets B. Calf pencils
C. Layers mash D. Silage

21. Which method of controlling animal parasites can be used to control both external and internal parasites?

- A. Rotational grazing B. Dipping
C. Drenching D. Dosing

22. A vaccine is given at the age of 6th, 10th and 14th weeks. Which vaccine is likely to be administered at this periods?

- A. Anti-polio f B. DPT
C. Anti-measles f D. BCG

23. The following are methods of spreading HIV. Which one is likely to be the least?

- A. Drug abuse B. Sexual interaction
C. Blood transfusion D. Sharing injections

24. When a farmer uses fertilisers and pesticides excessively he mostly pollutes

- A. Soil B. Water
C. Air D. Crops

25. The following are methods of irrigation. Which one uses water sparingly?

- A. Sprinkler irrigation B. Furrow irrigation
C. Flood irrigation D. Drip irrigation

26. Which method of controlling soil erosion is most suitable in controlling soil erosion on steep slopes?

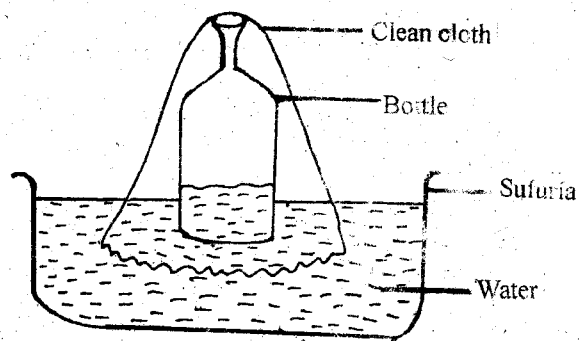
- A. Building gabions
B. Planting trees and other vegetation
C. Ploughing along the contour
D. Making terraces

27. The table below shows diseases and their causes. Which one is not correctly matched?

Diseases	Lack of
A. Marasmus	Vitamins E-F
B. Anaemia	Iron I-C
C. Night blindness	Vitamin A V-A
D. Rickets	Calcium V-D & C

Ekwas hoikoy - B.

28. The diagram below shows a method of preserving food.



Which type of food can be preserved using the above method?

- A. Vegetables B. Fruits
C. Milk D. Meat

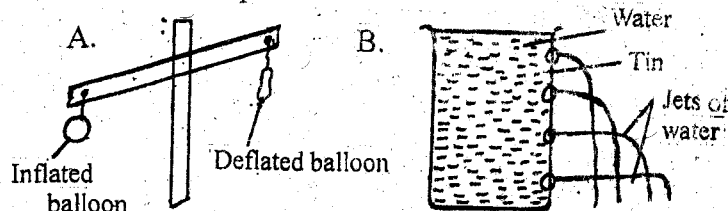
29. Which property of soil increases capillarity rate in soil?

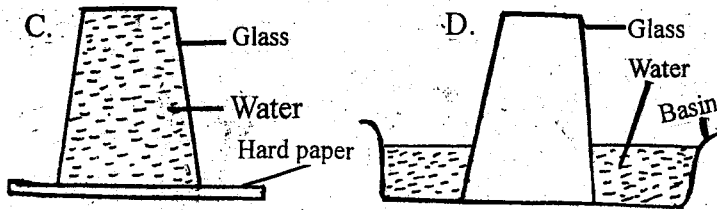
- A. Fineness B. Roughness
C. Large air spaces D. Increased humus

30. Which one of the following is a straight fertilizer?

- A. Green manure B. Sodium nitrate
C. Compost manure D. CAN

31. Which one of the following diagrams shows that air exerts pressure?

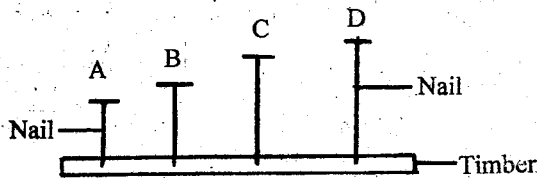




32. Which of these liquids are miscible liquids?
 A. Oil and ink B. Water and petrol
 C. Spirit and oil D. Water and ink

33. Which one of the following is NOT an effect of heat on a substance?
 A. Heat causes a permanent change
 B. Heat causes increase in temperature
 C. Heat decreases volume of a substance
 D. Heat causes change of state

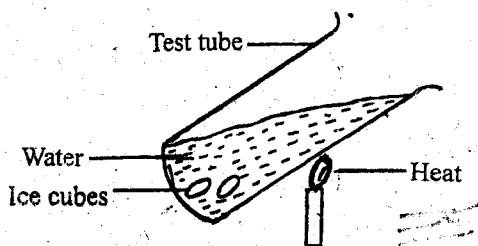
34. Class 6 pupils carried out the experiment to produce different types of sounds as shown below.



- Which nail produced the lowest sound?
 A. D B. C C. A D. B

35. Which word below can be used to describe a type of force that hinders work?
 A. Gravity B. Friction
 C. Weight D. Pressure

36. Class 7 pupils did a given experiment and drew the arrangement of the apparatus as shown below.



- What observation did they make?
 A. Water in the tube boiled.
 B. The ice cubes melted.
 C. The tube broke into pieces.
 D. The ice cubes did not melt.

37. What percentage of air is used in respiration?
 A. 78% B. 0.03%
 C. 21% D. 0.97%

38. The following are characteristics of vertebrates.

- (i) Lay eggs. ✓
 (ii) Warm blooded. ✗
 (iii) Body covered with scales. ✓
 (iv) Body covered with hair or fur. ✗
 (v) Cold blooded. ✓
 (vi) Give birth to young life ones ✗
 (vii) Have mammary glands ✗

Which of the above is of a salamander?

- A. i, iii, v B. v, i
 C. i, ii, iii D. iii, i

39. Which one of the following is a function of the ileum?

- A. Completes digestion ✓
 B. Absorption of water and mineral salts
 C. Produces gastric juice
 D. Stores undigested food

40. Which type of crop is wrongly matched?

- A. Cotton - fibre B. Cow peas - legume
 C. Bean - cereal D. Carrot - tuber

41. Which one is not a function of the leaf?

- A. Make plant food B. Store plant food
 C. Transpiration D. Absorption of water

42. A boy was bitten by a spider. Which part of the heart received the poisoned blood last?

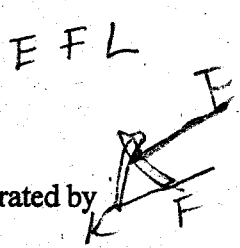
- A. Right ventricle B. Left auricle
 C. Right auricle D. Left ventricle

43. Which statement below is not true?

- A. The main function of plasma is transportation
 B. Physical changes in boys comes early than in girls
 C. A human being has all types of teeth developed
 D. The diaphragm reduces the chest cavity when breathing out.

44. Which pair of simple machines below have the fulcrum between the effort and the load?

- A. Claw hammer and pliers -
 B. Spade and fishing rod ✗
 C. Scissors and wheelbarrow ✗
 D. See saw and wheelbarrow



45. Which two substances can be separated by decantation method?

- A. Salt and water
 B. Sugar and sand
 C. Sand and water
 D. Iron fillings and copper fillings

46. Which one of the following is not passed through the placenta?

- A. Food
- B. Oxygen
- C. Blood
- D. Urea

47. Which two main components make urine?

- A. Water and salt
- B. Urea and water
- C. Urea and salts
- D. Water and carbon dioxide

48. The following are signs of sexually transmitted disease except

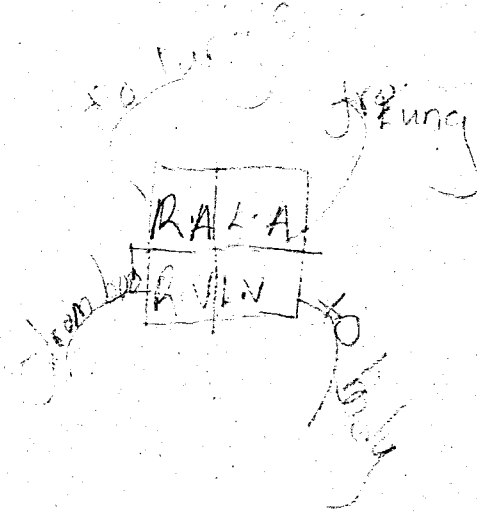
- A. Rashes on the skin
- B. Painless sores around the genitals
- C. Discharge of pus
- D. Coughing

49. Which one of the following statement is true?

- A. All solids conduct electricity
- B. Gases are poor conductors of electricity
- C. Liquids do not conduct heat
- D. All solids conduct heat

50. Which one of the following is the odd one out in the groups of animals ?

- A. Mammals
- B. Carnivores
- C. Herbivores
- D. Omnivores



Birds
Mammals
Fungi
Reptiles
Amphibians