

KCPE TRIAL EXAMINATION TERM 3 2017

STANDARD SEVEN, SCIENCE

READ THESE INSTRUCTIONS CAREFULLY

1. You have been given the 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 booklet.

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 **dark line** inside the correct numbered 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 Question 1 – 50 four answers are given. The answers are lettered A, B, C and D. In each case only **ONE** of the four answers is correct. Choose the correct answer.
10. On the answer sheet the correct answer is to be shown by drawing a **dark line** inside the box in which the letter you have chosen is written.

EXAMPLE

In the Question Booklet:

4. The following are functions of plant roots. Which one is NOT?
- | | |
|-----------------------|-----------------------|
| A. Absorbing water. | B. Making plant food. |
| B. Holding the plant. | D. Storage of food. |

The correct answer is B

On the answer sheet:

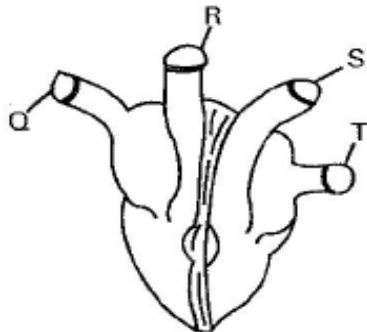
4 [A] **C** [D] **14** [A] [B] [C] [D] **24** [A] [B] [C] [D] **34** [A] [B] [C] [D] **44** [A] [B] [C] [D]

In the set of boxes numbered 4, the box with the letter D 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.

1. Which one of the following materials is not transported by the plasma?
 A. Digested food B. Oxygen
 C. Urea D. Heart

2. Use the diagram below to answer the question that follows:



Which one of the vessels marked Q, R, S and T takes deoxygenated blood to the lungs?

- A. S B. T C. Q D. R
3. The following are characteristics of blood vessels.
 (i) Thick elastic walls
 (ii) Wide lumen with valves
 (iii) Have no pulse
 (iv) Carry blood away from the heart

Which pair of the above characteristics describe Arteries?

- A. (ii) and (iii) B. (ii) and (iv)
 C. (i) and (iv) D. (i) and (iii)
4. Gerald was bitten by a poisonous snake on his right leg. Through which vessel did the poisonous blood enter the heart?
 A. Vena cava
 B. Pulmonary vein
 C. Aorta
 D. Pulmonary artery
5. Which one of the following components of blood plays a major role in blood clotting after an injury?
 A. White blood cells
 B. Plasma
 C. Platelets
 D. Red blood cells

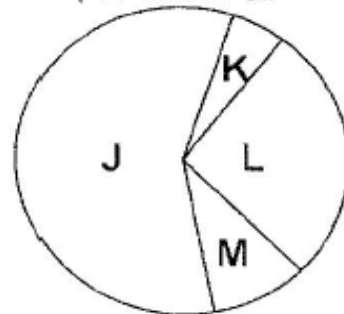
6. The following are physical changes in boys and girls during adolescence. Which one is NOT?
 A. Attraction to the opposite sex
 B. Pimples on the face
 C. Growth of hair on the armpit and pubic
 D. Increase in weight and height

7. The following are effects of drug abuse:
 (i) Addiction
 (ii) Marital status
 (iii) Impaired conflicts
 (iv) Lack of concentration
 (v) Truancy

- A. (i) and (iii) B. (iii) and (iv)
 C. (i) and (v) D. (ii) and (v)

8. The cotyledons of a seed are also called _____.
 A. Seed coat
 B. seed leaves
 C. embryo
 D. endosperm

9. The pie chart below shows composition of air



Which letter represents part of air used in photosynthesis?

- A. J B. L C. K D. M
10. Which one of the following is NOT an insectivorous plant?
 A. Venus fly trap
 B. Pitcher Plant
 C. Buttercup
 D. Sundew

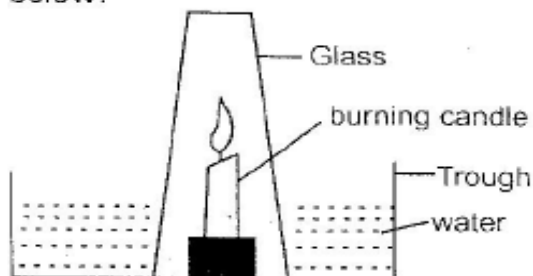
11. When the arrow of a wind vane points south, the wind is blowing from _____.
- A. South B. North
C. East D. West

12. Which one of the following groups is made up of major components of the environment only?
- A. Light, plants, building
B. Animals, soil, heat
C. Cars, desks, clothes
D. Soil, air, water

13. Which one of the following statements is NOT correct about goats?
- A. They have mohair
B. They have four teats
C. Their meat is called mutton
D. Some produce milk

14. Which one of the following drugs is an intoxicating inhalant?
- A. Cobbler's glue B. Khat
C. Tobacco D. Bhang

15. Std. 6 pupils from Juhudi Academy carried out the experiment shown below.



Which one of the following is NOT a correct observation from the above experiment?

- A. The candle went off immediately.
B. Candle went off after sometime
C. Water level in the plate dropped
D. Water level in the jar rose
16. Which one of the following methods of grazing is characterized by using of movable fences?
- A. Paddockling
B. Tethering

- C. Zero Grazing
D. Strip grazing

17. The stage of H.I.V infection where a victim tests positive has no visible signs is _____.
- A. Window stage
B. Symptomatic stage
C. Asymptomatic
D. Full blown Aids

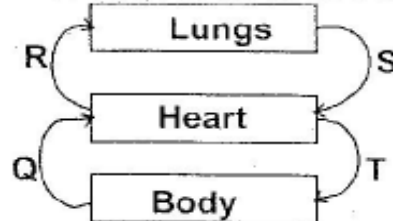
18. Three of the following are uses of water for recreation. Which one is NOT?
- A. Boat riding
B. Making fountains
C. Swimming
D. Surfing

19. Which one of the following is NOT a way of maintaining simple tools?
- A. Sharpening
B. Cleaning after use
C. Proper Storage
D. Using them regularly

20. Sound travels best in _____.
- A. solids B. vacuum
C. liquids D. gases

21. Which one of the following plants is LEAST likely to be attacked by stalk borers?
- A. Sugarcane B. Sorghum
C. Peas D. Maize

22. The diagram below shows the circulation of blood in the body

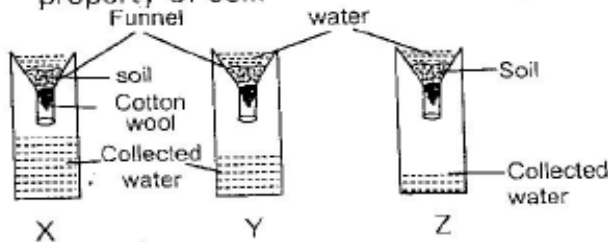


Which pair of blood vessels shown above carry deoxygenated blood?

- A. R and S B. Q and R
C. S and T D. Q and T

23. Which one of the following types of soil erosion is the most difficult to notice?
- Gulley erosion
 - Rill erosion
 - Splash erosion
 - Sheet erosion
24. Which one of the following lists consists of the third, Fifth and sixth planets from the sun respectively?
- Mars, Jupiter, Uranus
 - Earth, Jupiter, Saturn
 - Mercury, Mars, Neptune
 - Earth, Jupiter, Uranus
25. Which one of the following pairs of plants stores food in the roots?
- Cabbage and kales
 - Sweet potatoes and onions
 - Carrots and arrowroots
 - Irish potatoes and yams
26. Plants depends on each other in three of the following ways except;
- habitat
 - support
 - shade
 - pollination
27. Which one of the following crop pests causes damage by sucking sap from leaves and fruits?
- Aphids
 - Weevils
 - Cutworms
 - Stalk borers

28. Std. 5 pupils set the experiment below to investigate a property of soil shown below to investigate a property of soil.



Which one of the following types of soil shown above is the best for building modern houses?

- Z
- X
- Y
- Mixture of X and Y

29. Which one of the following narcotic drugs is made artificially in the laboratory?
- Bhang
 - Opium
 - Heroin
 - Mandrax
30. Which one of the following livestock parasites is only found in the small intestines of animals?
- Liver flukes
 - Roundworms
 - Hookworms
 - Tapeworms
31. Heat is transferred through vacuum by _____.
- radiation and convection
 - radiation only
 - conduction and convection
 - convection only
32. The digestive juice that complete the process of digestion juice that completes the process of digestion is found in the _____.
- mouth
 - ileum
 - colon
 - stomach
33. Three of the following are reasons for lighting a house properly. Which one is NOT?
- To get enough warmth
 - To discourage pests
 - To read comfortably
 - TO see clearly
34. Which one of the following is the largest component of the environment?
- Soil
 - Plants
 - Air
 - Water

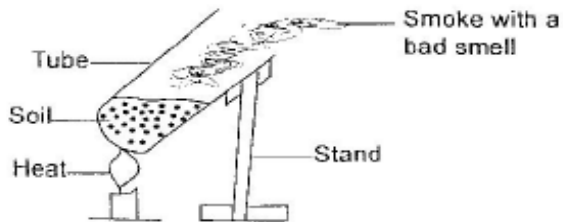
35. The following are signs and symptoms of a certain water-borne disease.

- (i) Aches in the muscle and joints
- (ii) Loss of appetite
- (iii) Rashes on the skin

The disease described above is

- A. malaria
- B. bilharzia
- C. typhoid
- D. cholera

36. The diagram below shows an activity carried out by a group of class 4 pupils.



From the above experiment, the pupils concluded that soil contains

- A. organic matter
- B. mineral particles
- C. air
- D. living organisms

37. Which one of the following parts of carnivorous plants is adapted for tapping insects?

- A. Flowers
- B. Stems
- C. Leaves
- D. Roots

38. Which one of the following statements is correct about pressure?

- A. Pressure in liquids increases with height.
- B. Pressure in liquids is different at the same level.
- C. Pressure is the quantity of matter in an object
- D. Pressure in solids depends on surface area.

39. Which one of the following types of teeth is not part of the deciduous set?

- A. Canines
- B. Molars
- C. Incisors
- D. Premolars

40. The best method of controlling weeds in a cabbage plantation is

- A. digging them out
- B. using chemicals
- C. uprooting
- D. slashing

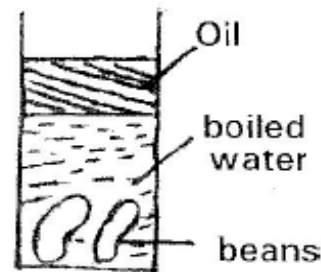
41. Which one of the following animals belongs to the same group with a scorpion?

- A. Mite
- B. Crab
- C. Termites
- D. Aphids

42. Which one of the following is NOT a problem related to teeth?

- A. Gingivitis
- B. Dental caries
- C. Tooth Decay
- D. Dental Floss

43. Std. 6 pupils put seeds in a container with boiled water and poured a layer of oil as illustrated below:



After five days, the seeds did not germinate due to lack of:-

- A. Suitable temperature
- B. Moisture
- C. Oxygen
- D. Sunlight

44. Which one of the following groups of plants is made of green non flowering plants?
- A. Mushroom, mould, yeast
 - B. Sisal, Grass, cabbage
 - C. Maize, Beans, Kales
 - D. Cedar, Algae, Moss
45. The weight of objects measured in _____
- A. kilograms
 - B. newton's
 - C. millilitres
 - D. joules
46. In a food chain, Grasshoppers and Zebras are classifieds _____
- A. decomposers
 - B. secondary consumers
 - C. primary consumers
 - D. tertiary consumers
47. Three of the following are characteristics of wind – pollinated flowers. Which one is NOT?
- A. Heavy and sticky pollen
 - B. Feathery stigma
 - C. Small in Size
 - D. Have no scent
48. Which one of the following is an opaque material?
- A. Air
 - B. Water
 - C. Mirror
 - D. Clear Glass
49. Which one of the following cannot be seen on the sky during the daytime?
- A. Moon
 - B. Clouds
 - C. Stars
 - D. Sun
50. The DPT Vaccine is given to prevent three of the following diseases. Which one is NOT?
- A. Tetanus
 - B. Whooping
 - C. Diphtheria
 - D. Tuberculosis