JESM 008

# K.C.P.E EIGHTH TRIAL STANDARD EIGHT 2022

SCIENCE

Time: 1hr 40mins

#### READ THESE INSTRUCTIONS CAREFULLY

- You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions.
- Do any necessary rough work
- question booklet. When you have choses good

#### HOW TO USE THE ANSWER SHEET

- at you have written on the answer sheet:

## YOUR INDEX NUMBER

YOUR NAME

### NAME OF YOUR SCHOOL

- Bybdrawing a dark line inside the correct numbered boxes mark your full Index Number (i.e. School ode Number and the three-figure Candidate's Number) in the grid near the top of the answer sheet.
- Do not make any marks outside the boxe
- Keep your answer sheet as clean as possible and do not fold
- Foreach of the Questions 1 50, four answers are given. The answers are lettered A, B, C and E case only ONE of the four answers is correct. Choose the correct answer.
- 10. On the answer sheet the correct answer letter you have chosen is written

Example

### In the Question Booklet:

- 14. The process by which plants lose itmosphere is called
  - A. capillarity
  - diffusion
  - transpiration
  - D. evaporation

The correct answer is C (transpiration)

On the answer sheet:

4 AUBUCUDI 14 AUBUG DI 24 AUBUCUDI

34 1A11 B11 C1 D1

In the second set, the box with the letter C 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.

This question paper consists of 7 printed pages

Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing

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- Which is the last activity when separating a mixture of salt, small pebbles and iron filling?
  - A. Evaporation
  - B. Dissolving
  - C. Using a magnet
  - D. Filtering
- The force that opposes motion is useful when
  - A. a dove is flying
  - B. raising the flag
  - C. pushing a big log
  - D. walking down a steep slope.
- 3. Three of the following are methods of rotaitonal grazing. Which one is not?
  - A. Strip grazing
  - B. Zero grazing
  - C. Paddocking
  - D. Tethering
- 4. Which pair of blood vessel carry blood under low pressure?
  - A. Venacava and pulmonary vein
  - B. Pulmonary artery and aorta.
  - C. Aorta and venacava.
  - D. Pulmonary artery and pulmonary
- 5. Which one of the following characteristics is found in both shark and tortoise?
  - A. Lay eggs on the land.
  - B. Have dry scales.
  - C. Have backbone.
  - D. Live partly on water.
- 6. Which one of the following statements is correct about hard water?
  - A. Best for laundry work.
  - B. Contains alot of minerals.
  - C. Rain is the main source of hard water.
  - D. Filtering soften hard water.

- The main reason why people living with HIV and AIDS are encouraged to take alot of fluids is because they
  - A. prevent constipation
  - B. boost the body immunity
  - C. add nutrients to the body
  - D. prevent dehydration.
- A child was diagonised with the following signs and symptoms.
  - (i) Looking weak.
  - (ii) Muscle wastage.
  - (iii) Alert eyes.

The child was advised to feed on

- A. proteins
- B. vitamins
- C. balanced diet
- D. minerals.
- 9. Which one of the following is a function of amniotic fluid?

Suppy food to the foetus.

Prevent the foctus from germs.

Allow the exchange of nutrients

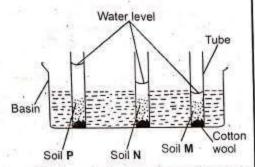
between the mother and foetus.

D. It lubricates the foetus.

- 10. Which of the following pairs consists of only sinkers?
  - A. Stone and charcoal.
  - B. Pins and pieces of glass.
  - C. Pencil and metal plate.
  - D. Wood and candle wax.

STD 8 nns science

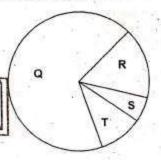
 The set up shown below shows pupils investigating capillarity in different types of soil.



Which was the last step in carrying out the experiment above?

- A. Plugging end of each tube with cotton wool.
- B. Putting tubes into the basin.
- C. putting water in the basin.
- Putting equal amount of soil in the tubes.
- 12. Which one of the following chamb heart has the thickest walls?
  - A. Left auricle
  - B. Right ventricle
  - C. Right auricle
  - D. Left ventricle
- Three of the following animals are attacked by ticks except
  - A. cattle
  - B. rabbits
  - C. sheep
  - D. goats.
- 14. Which is the best way of controlling the spread of whooping cough?
  - A. Living in a well ventilated room.
  - B. Eating balanced diet.
  - C. Observing personal hygiene.
  - D. Vaccination against the disease.

- 15. Which one of the following practices helps to conserve soil by holding back the soil?
  - A. Overstocking.
  - B. Building gabion.
  - C. Cultivating near rivers.
  - D. Fetching water for the animals.
- 16. Which one of the following plants store food the same place as cassava?
  - A. Onions
  - B. Irish potatoes
  - C. Sugarcane
  - D. Arrow root
- The diagram below represents the proportion of gases in air.

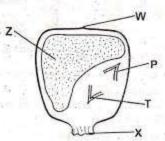


Which proportion represents the gas used in burning?

- A. R
- B. Q
- C. S
- D. T
- 18. Which one of the following group contain body building food?
  - A. Soya beans, cashew nut, peas.
  - B. Mutton, apples, beans.
  - C. Milk, kales, fish.
  - D. Honey, fruits, green bananas.

- Three of the following sources of electricity does not use chemicals except
  - A. wind driven turbine
  - B. geothermal generator
  - C. solar panel
  - D, car battery.
- 20. Which one of the following makes work easier by changing the direction of applied force?
  - A. Wheelbarrow.
  - B. Flag post.
  - C. Claw hammer,
  - D. Stair case.
- 21. Which one of the following is a fodder crop?
  - A. Star grass.
  - B. Sunflower seeds.
  - C. Calf pellets.
  - D. Desmodium.
- During inhalation, the strong sheet of muscles that separate the chest from abdomen
  - A. become dome-shaped
  - B. flattens
  - C. become wide
  - D. become narrow.
- 23. Which one of the following is a characteristics of cuphorbia plant?
  - A. Air sacs.
  - B. Flexible stem.
  - C. Large flat leaves.
  - D. Thick waxy cuticle.

- 24. Which one of the following manure provide plants with long term nutrients?
  - A. Blood meal.
  - Farmyard manure.
  - C. Double super phosphate.
  - D. Diammonium phosphate.
- The diagram below represent a maize grain.



Which two parts forms the embryo?

- A. W and X
- B. T and Z.
  - P and T
  - X and Z

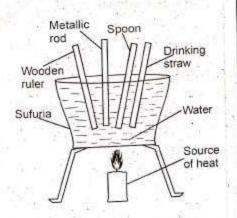
6. The activities below are done when separating a mixture of sugar, iron fillings and stones but not in correct order?

- (i) Put the mixture on source of heat.
- (ii) Add water to the mixture.
- (iii) Pass a magnet through the mixture.
- (iv) Filter the mixture through a piece of cloth.

Which of the following shows the correct order?

- A. (ii), (iii), (iv), (i)
- B. (iv), (iii), (i), (ii)
- C. (i), (iii), (ii), (iv)
- D. (iii), (ii), (iv), (i)
- A coin at the bottom of a swimming pool appears nearer the surface due to
  - A. dispersion of light
  - B. refraction of light
  - C. splitting of light
  - D. reflection of light.

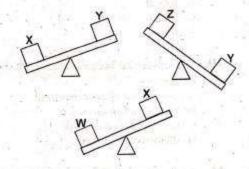
- 28. Which one of the following correctly shows the path taken by urine from kidneys?
  - A. Urethrea ureter bladder.
  - B. Ureter bladder urethra.
  - C. bladder ureter urethra.
  - D. Urethra bladder ureter.
- 29. During an experiment in class, the teacher smeared a small piece of cloth with oil and lit it to produce smoke. The experiment was used to investigate if
  - A. gases have mass
  - B. gases have definite volume
  - C. gases occupy space
  - D. gases exert pressure,
- 30. Which of the following drugs are not prohibited in Kenya but are harmful?
  - A. Alcohol and khat.
  - B. Tobacco and bhang.
  - C. Cocaine and alcohol.
  - D. Heroine and mandrax.
- 31. The set up below was used to investigate certain aspect of heat.



Which aspect were they investigating?

- A. Convection in water.
- B. Conduction in different solids.
- C. Contraction in solids.
- D. Conduction in water.

- 32. Which of the following activities will help in controlling air pollution?
  - A. Excessive use of farm chemicals.
  - B. Recycling untreated sewage.
  - C. Use of aerosol spray.
  - D. Proper disposal of industrial gases.
- 33. Which one of the following is not a reason why drugs should be stored in a properly labelled containers? To
  - A. prevent misuse of drugs
  - B. avoid contamination
  - C. prevent being reached by children
  - D. prevent food poisoning.
- 34. Which one of the following simple tool is maintained through sharpening?
  - A. File
  - B. Hammer
  - C. Jembe
  - D. Wheel barrow
- Peterson had four boxes W,X,Y and Z. He placed these boxes on a balance in pairs.
  The results are as shown below.



Which boxes were heaviest and lightest respectively?

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

- 36. Which one of the following method of food preserving is not traditional?
  - A. Drying
  - B. Use of honey
  - C. Use of low temperature
  - D. Canning
- 37. Which one of the following statement is not true about solids and liquids? They
  - A. have definite volume
  - B. have definite shape
  - C. have definite mass
  - D. change in state on heating.
- To control the spread of HIV/AIDS public awareness campaigns can be done through the following except
  - A. market place
  - B. church service
  - C. security meeting
  - D. V.C.T centre.
- Some young plants were noted grounder big trees. The young plant debig plants for
  - A. support
  - B. habitat
  - C. shade
  - D. food.
- The activity that occurs first during the birth process is
  - A. contraction of the uterine walls
  - B. breaking of amniotic sac
  - C. coming out of after birth
  - D. dilation of the cervix.
- 41. Which one of the following plants has tap
  - A. Sodom apple
  - B. Wheat
  - C. Sugarcane
  - D. Coconut

- 42. Which one of the following sentences does not describe cumulus clouds? They
  - A. have a flat base
  - B. bring fine weather
  - C. cover the whole sky
  - D. are white in colour.
- 43. Which of the following liquids will form a uniform layer when mixed?
  - Kerosene and cooking oil.
  - B. Diesel and water.
  - C. Ink and petrol.
  - D. Petrol and spirit.
- 44. Which one of the following pairs consists of renewable sources of energy?
  - A. Coal and sun.
  - B. Firewood and kerosene.
  - C. Charcoal and biogas.
  - D. Petrol and diesel.

Friction is a force that opposes motion. In which of the following way is it increased?

A. Using lubricant.

B. Using rollers.

Stream lining bodies.

D. Having treads.

