

**SCIENCE PAPER
CLASS EIGHT
FOR K.C.P.E 2015**

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SCIENCE

Time: 1hr 40mins

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 booklet.

HOW TO USE THE ANSWER SHEET

4. Use 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 **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 Questions 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:

14. The following are uses of heat **EXCEPT**

- A. cooking
- B. warming
- C. lighting
- D. ironing

The correct answer is C (lighting)

On the answer sheet:

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

In the second set, the box with the letter C printed in it is marked.

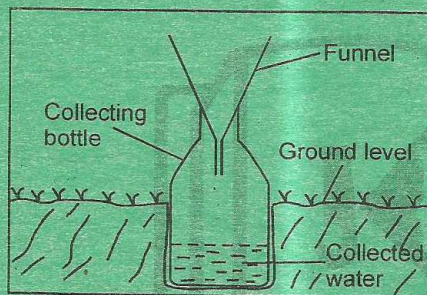
11. Your **dark line** **MUST** be within the box.
12. For each question **ONLY ONE** box is to be marked in each set of four boxes.

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.

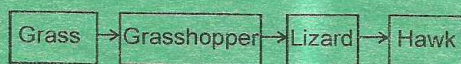
1. Which one of the following pairs of immunisable diseases is administered at birth?
 - A. Tuberculosis and yellow fever
 - B. Measles and tetanus
 - C. Polio and tuberculosis
 - D. Tetanus and whooping cough

2. The illustration below shows a simple rain gauge



When setting the instrument above in order to work well, it is important to sink the bottle a few metres into the ground in order to:

- A. trap and collect all the rain water.
 - B. avoid splashing soil particles into the contents.
 - C. prevent evaporation of the collected water.
 - D. make it more stable and avoid theft.
3. The illustration below shows a food chain (the arrow points to the eater)



In the event a disease killed all the lizards in the ecosystem, which one of the following would **LEAST** likely happen?

- A. Hawks would decrease
- B. Grass would increase
- C. Grasshoppers would increase
- D. Hawks would eat grasshoppers

4. Which one of the following shows a pair of non-magnetic materials **ONLY**?
 - A. Copper and aluminium
 - B. Iron and copper
 - C. Steel and aluminium
 - D. Iron and steel

5. Which one of the following animal feeds provide animals with proteins in their diet?
 - A. Hay
 - B. Lucerne
 - C. Maize germ
 - D. Salt lick

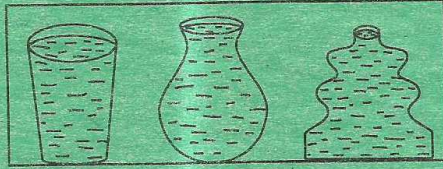
6. One of the following drugs is a stimulant when used in small quantities but a depressant when used in large amounts. Which one?
 - A. Alcohol
 - B. Bhang
 - C. Cobbler's glue
 - D. Mandrax

7. The following processes take place during germination of a bean seed:
 - (i) The root grows into the soil
 - (ii) The seed swells
 - (iii) The plumule forms a shoot
 Which one shows their **CORRECT** order?
 - A. i, ii, iii
 - B. ii, i, iii
 - C. iii, i, ii
 - D. ii, iii, i

8. Which one of the following marks the last step in the birth process?
 - A. Labour pains
 - B. Cutting of the umbilical cord
 - C. Removing the afterbirth
 - D. Rapturing of the amniotic sac

9. Which one of the following pests attack both field and storage crops?
 - A. Weaver birds
 - B. Aphids
 - C. Weevils
 - D. Cutworms

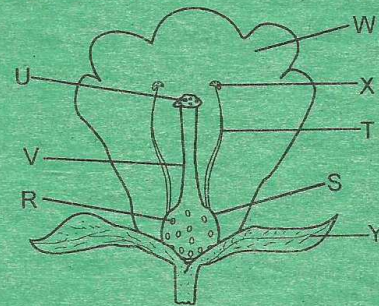
10. Standard five pupils collected samples of different containers, put water and assembled them as shown below.



After observing their set-ups keenly, the pupils would **LIKELY** conclude that:

- A. liquids have no definite shape
 - B. liquids exert pressure
 - C. matter occupies space
 - D. different containers have different shapes
11. When inhaling the
- A. chest moves outwards and downwards.
 - B. pressure in the lungs decreases.
 - C. volume of the chest decreases.
 - D. diaphragm becomes dome shaped.
12. One of the following is **NOT** a rotational method of grazing farm animals. Which one?
- A. Strip grazing
 - B. Stall feeding
 - C. Paddockking
 - D. Tethering
13. Which one of the following blood components is attacked by the HIV virus?
- A. Plasma
 - B. Platelets
 - C. Red blood cells
 - D. White blood cells

14. The diagram below shows a flower.



Which of the following shows the male parts?

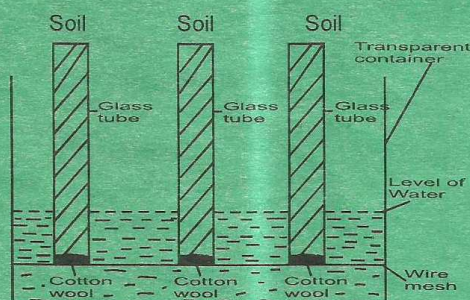
- A. W and Y
 - B. U and V
 - C. X and T
 - D. R and S
15. Which of the following excretory products is excreted by the lungs, the skin and the kidneys?
- A. Carbon dioxide
 - B. Water
 - C. Urea
 - D. Salts
16. Plants that grow on dry areas are most **UNLIKELY** to:
- A. develop deep root system
 - B. shed their leaves at some point
 - C. have reduced stomata
 - D. have large leaf surface
17. Which one of the following **CORRECTLY** shows a list of food crops **ONLY**?
- A. Cereals, legumes, vegetables, fruits and tubers.
 - B. Beverages, legumes, fruits, cereals and vegetables.
 - C. Vegetables, oil crops, legumes, fruits and cereals.
 - D. Cereals, legumes, beverages, fruits and vegetables.

18. While Standard four pupils were out on nature walk, they saw a weed with the following characteristics:

- i) *small thorns on the leaf and stems*
- ii) *small yellow ripe fruits*
- iii) *small green unripe fruits with white stripes*

This weed is likely to be:

- A. wandering jew
 - B. black jack
 - C. sodom apple
 - D. thorn apple
19. Clouds that look like small cotton balls
- A. appear low in the sky
 - B. are seen in fair weather
 - C. indicate heavy rainfall
 - D. are round at the bottom
20. Which one of the following is the brightest planet?
- A. Mercury
 - B. Venus
 - C. Jupiter
 - D. Saturn
21. Which one of the following is the **MAIN** cause of tooth decay?
- A. Acids
 - B. Biscuits
 - C. Food remains between the teeth
 - D. Sugar and sugary foods
22. The illustration below shows a set-up done by Standard six pupils to investigate the rise of water in the soil.



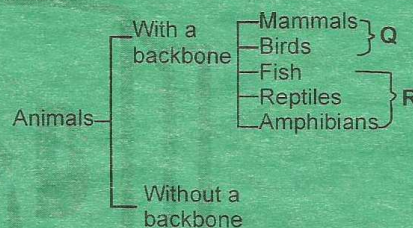
For this investigation to be effective, which one of the following need **NOT** be the same?

- A. Amount of water
- B. Glass tubes
- C. Cotton wool
- D. Amount of soils

23. One evening as Mary was walking home from school, she saw her shadow on her right hand side. What was the direction of her school?

- A. North
- B. South
- C. West
- D. East

24. The illustration below shows classification of animals.



Which one of the following was used to classify them into **Q** and **R**?

- A. Body cover
- B. Reproduction style
- C. Body temperature
- D. Feeding habits

25. The type of bird with the beak shown below is **LIKELY** to be a



- A. grain eater
- B. filter feeder
- C. nectar feeder
- D. flesh eater

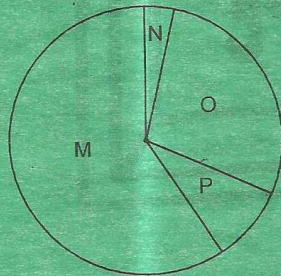
26. Which one of the following is the **MAIN** similarity among solids, liquids and gases?

- A. Definite mass
- B. Definite shape
- C. Definite size
- D. Definite volume

27. The heat transfer in liquids and gases take place through
- radiation only
 - convection only
 - conduction only
 - radiation and convection

28. Splash erosion can be controlled by
- planting cover crops
 - building gabions
 - making terraces
 - mulching

29. The pie chart below shows how different parts of the air are represented on the atmosphere.

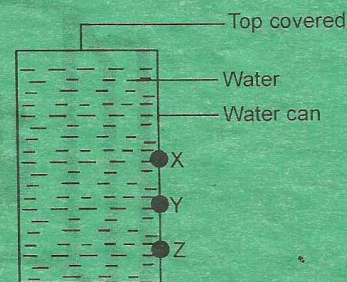


Which letter represents part of the air that is used in preserving soft drinks?

- M
 - N
 - O
 - P
30. Which one of the following methods of food preservation works by absorbing moisture from food?
- Canning and refrigeration
 - Using honey and low temperatures
 - Smoking and using honey
 - Salting and drying
31. Which one of the following is **NOT** a use of water for recreation?
- Boat racing
 - Fishing
 - Swimming
 - Irrigation

32. Which one of the following signs of ill-health in livestock may **NOT** be seen immediately by the farmer?
- Rough coat
 - Loss of weight
 - Coughing
 - Reduced yields

33. The experiment below was set up by Standard four pupils to investigate pressure in liquids.

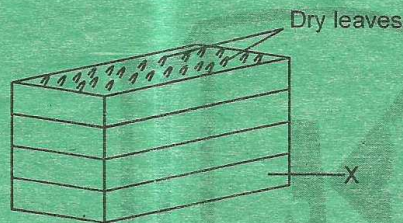


Which hole threw water furthest?

- Z
 - X
 - Y
 - None
34. Hardwater mixes with soap to form
- scum
 - scale
 - fur
 - lather
35. Which pair of blood vessels below carries oxygenated blood **ONLY**?
- Vena cava and pulmonary artery
 - Aorta and vena cava
 - Aorta and pulmonary vein
 - Pulmonary vein and pulmonary artery

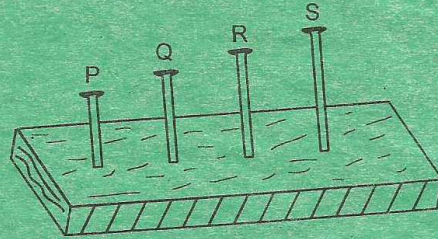
36. The **MAIN** reason as to why farmers apply mulch on their crops while on the farm is to:
- kill weeds
 - make the soil fertile
 - conserve soil
 - conserve moisture

37. The illustration below shows an improvised compost heap. Which materials can be put at the layer labeled X?



- Maize stalk
 - Ash
 - Farmyard
 - Kitchen refuse
38. Expectant mothers are advised to take proteins in their diet for
- enough milk production
 - proper growth of the baby
 - production of enough blood
 - proper bone and teeth formation
39. Chemical energy can be contained in the following **EXCEPT** in
- car batteries
 - bicycle dynamos
 - foods
 - fuels

40. Which one of the following nails can produce the highest sound?



- S
 - R
 - Q
 - P
41. Which one of the following sources of energy is non-renewable?
- Solar
 - Kerosene
 - Charcoal
 - Wind
42. Large and small solid particles can be separated by:
- winning
 - filtering
 - hand picking
 - evaporation
43. A child from a local dispensary was taken ill with the following signs and symptoms:
- Diarrhoea with mucus*
 - Severe abdominal pains*
 - Vomiting*
 - Dehydration*
- The child was **LIKELY** to be suffering from
- cholera
 - bilharzia
 - malaria
 - measles
44. Which one of the following levers has the load between the fulcrum and the effort?
- Claw hammer
 - Crow bar
 - Wheel barrow
 - Spade

45. Work is made easiest on an inclined plane by:

- A. increasing the load distance
- B. reducing the load distance
- C. increasing the effort distance
- D. reducing the effort distance

46. Magnetic force cannot pass through

- A. steel
- B. copper
- C. silver
- D. wood

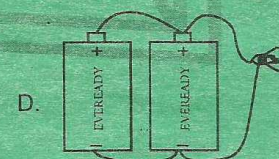
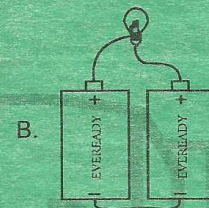
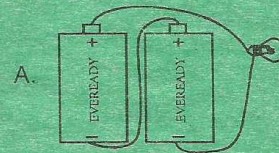
47. Force can be increased by

- A. lubricating the movable parts
- B. making contact surfaces smooth
- C. using rollers to move heavy loads
- D. making treads on vehicle tyres

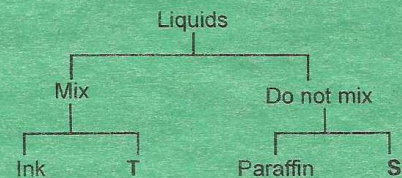
48. Which of the following statements about a single fixed pulley is **TRUE**?

- A. When using a single fixed pulley work is increased.
- B. The load moves twice the distance of the effort.
- C. The effort required to overcome the load is slightly more than the load.
- D. The effort moves in the same direction as the load.

49. Which one of the following circuits can give the brightest light?



50. The chart below represents a simple classification on liquids.



Which liquids can be represented by T and S?

- | T | S |
|-------------|-------------------|
| A. Kerosene | Spirit |
| B. Milk | Cooking oil |
| C. Water | Methylated spirit |
| D. Diesel | Engine oil |