

K.C.P.E EIGHTH TRIAL STANDARD EIGHT 2018

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 process by which plants lose water to the atmosphere is called

- A. capillarity
- B. diffusion
- C. transpiration
- D. evaporation

The correct answer is C (transpiration)

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 animals is adapted to feeding on plants and flesh?

A. Pig
B. Dog
C. Cow
D. Hen

2. The object shown below is **LIKELY** to be used together with a machine called.



- A. standard weight
B. spring balance
C. weighing balance
D. incurred plane
3. Which one of the following processes is the second to occur during the process of birth?
- A. Bursting of the amniotic bag.
B. Contraction of the uterus wall.
C. Cutting of the umbilical cord
D. Dilation of the cervix
4. Which one of the following drugs increases appetite?
- A. Bhang
B. Cocaine
C. Heroin
D. Tobacco
5. Which one of the following foods will help boost the immune system of the body?
- A. Fish, rice, oranges
B. Onions, spinach, tomatoes
C. Carrot, Irish potatoes, cassava
D. Peas, beans, groundnuts
6. Which pair of chambers of the heart receives brightly coloured blood?
- A. Right auricle and right ventricle
B. Right auricle and left ventricle
C. Left auricle and left ventricle
D. Right ventricle and left ventricle

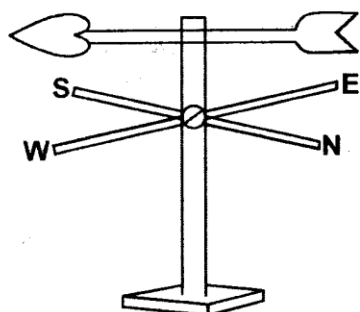
7. Four pupils in class 8 were asked by their teacher to state the sources of energy. They stated as follows:

Shanice - firewood
Carol - diesel
Muthama - petrol
Priscillah - coal

Who among the above pupil stated source of energy that **CANNOT** be exhausted?

- A. Priscillah
B. Muthama
C. Carol
D. Shanice
8. Liquid **X** mixes with liquid **Y**, liquid **Y** do not mix with liquid **Z**. If all the liquids are mixed, how many layers will be formed?
- A. One
B. Two
C. Three
D. Four
9. Abigaël saw jets of water thrown upward and forming patterns near a certain building. She asked the teacher the kind of use of water it was. Which answer do you think she got from the teacher?
- A. Recreation
B. Transport
C. Industry
D. Farm
10. Which disease can be prevented by eating food rich in the nutrients provided by leguminous plants?
- A. Rickets
B. Kwashiorkor
C. Marasmus
D. Malaria
11. The soil that is easily eroded also
- A. has the best drainage
B. has the best capillarity
C. is the best for farming
D. makes the longest ribbons.

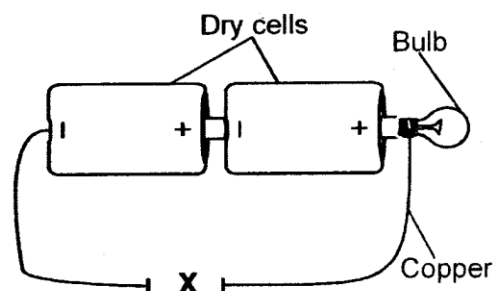
12. During a science lesson Robert, a class 5 boy constructed the instrument shown below. He used it to tell the direction of wind.



The instrument showed that the wind was blowing from

- A. North west
 - B. east
 - C. south
 - D. north
13. Which method of grazing is the **BEST** for a poor farmer with a small piece of land?
- A. Tethering
 - B. Herding
 - C. Stall feeding
 - D. Paddocking
14. Which one of the following maintenance practices for simple machines is **NOT** done to a wheelbarrow?
- A. Greasing
 - B. Sharpening
 - C. Proper storage
 - D. Use for the right purpose
15. Joan a standard 4 pupil dipped a glass of cold water in a basin of hot water. She observed some bubbles on the wall of the glass. Joan was testing the presence of
- A. air in the soil.
 - B. bubbles in the water.
 - C. air in the water.
 - D. humus in the soil

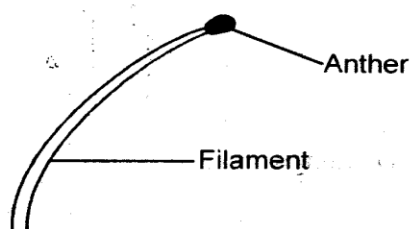
16. The diagram below shows a simple circuit made by std 7 pupils.



Which one of the following materials when placed at part **X** will **NOT** make the bulb light?

- A. Pencil graphite
 - B. Carbon rod
 - C. Spoon
 - D. Cotton thread
17. Pressure in liquids increases when
- A. the diameter of the tin is increased.
 - B. the size of hole is increased.
 - C. amount of water is increased.
 - D. depth of water is increased.
18. The **CORRECT** use of water for excretion in our body is
- A. prevent dehydration
 - B. removal of urea from the body
 - c. making of blood.
 - D. swimming.
19. Pupils of std 4 in Kabuku primary school collected the following materials during a science practical lesson.
- (i) cotton wool
 - (ii) manilla paper
 - (iii) aluminium foil
 - (iv) glue
- The pupils were most **LIKELY** preparing to make the model of the
- A. sky
 - B. solar system
 - C. soil capillarity
 - D. reflection

20. Below shows parts of a flower.



One of the shown parts produces a reproductive cell called

- A. anther
- B. ovules
- C. pollen grains
- D. sperms

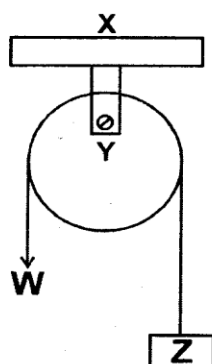
21. Which one of the following does **NOT** need light?

- A. Green plants
- B. Taking pictures using a camera
- C. Animals
- D. Candle

22. The date after which the medicine should **NOT** be used is called

- A. dosage date
- B. manufacturing date
- C. expiry date
- D. prescription date

23. The diagram below shows an example of simple machine.



Work done by the above machine is represented by letter

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

24. Which one of the following is a non living **MAJOR** component of the environment?

- A. plants
- B. water
- C. animals
- D. light

25. Which one of the following does **NOT** lead to water conservation?

- A. Using water sparingly.
- B. Harvesting rain water.
- C. Piping water.
- D. Constructing dam

26. Standard 5 pupils of Jitahidi schools collected the following materials to perform an experiment

- i) *balloon*
- ii) *glass bottle*
- iii) *candle*
- iv) *match box*

What were the pupil **LIKELY** to investigate?

- A. Expansion of air
- B. Expansion of solids
- C. Melting
- D. Part of air used in burning.

27. Which one of the following is a mode of protection for animals?

- A. Slithering
- B. Crawling
- C. Walking
- D. Flying off

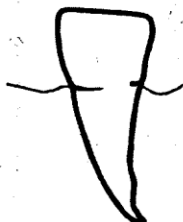
28. The following are signs of waterborne diseases

- (i) *Rice water diarrhoea*
- (ii) *Vomiting*
- (iii) *Skin rash*
- (iv) *Aches in muscles and joints*
- (v) *Headache*
- (vi) *Blood in stool*

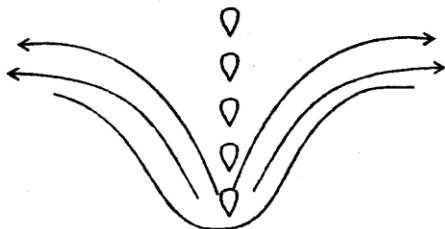
Which pair show signs of typhoid?

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

29. Which one of the following is the function of the type of tooth shown below?



- A. Biting and tearing
B. Biting and cutting
C. Grinding and chewing
D. Gripping and tearing
30. Which one of the plants grow in the soil that is lacking nitrogen?
A. Lichen
B. Beans
C. Pitcher plant
D. Passion fruits
31. The following materials were used to investigate whether light travels in a straight line.
(i) Candle
(ii) String
(iii) Cardboard with holes
- What was the **MAIN** purpose of using the string in the experiment?
A. Setting the cardboard upright.
B. Burning to produce light.
C. Carrying the cardboard
D. Setting the hole of a cardboard in a straight line.
32. The type of soil erosion shown below can **BEST** be prevented by use of



- A. porous dam
B. cover crops
C. mulches
D. terraces

33. Which pair of internal parasites is **NOT** found in the small intestine of livestock?

- A. Tapeworm and liverfluke
B. Roundworm and tapeworm
C. Hookworm and tapeworm
D. Lungworm and liverfluke

34. The following are effects of drug abuse.

- (i) lack of concentration
(ii) truancy
(iii) impaired judgment
(iv) addiction
(v) rape

Which of these are health effects?

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

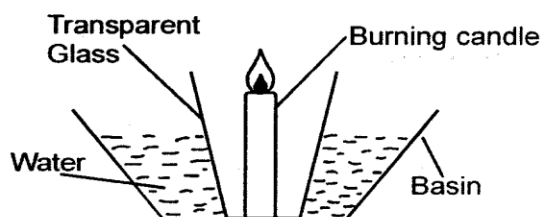
35. For how long should a baby be breastfed before it is completely stopped?

- A. About 2 years
B. four to six months
C. 3 months
D. 6 years

36. Which one of the following is **NOT** a part of reproductive system in female human being?

- A. Vagina
B. Ovary
C. Urethra
D. Fallopain tube

37. The diagram below shows an experiment done to investigate the part of air is used in burning.

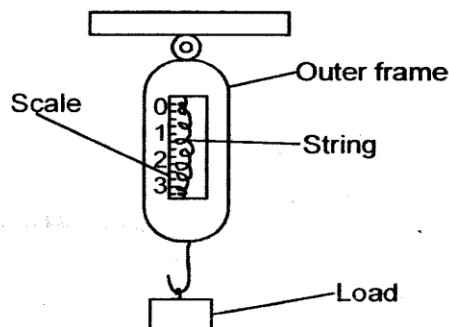


Which one of the following observation did they make after sometime?

- A. Water got inside the glass
 - B. Level of water dropped in the basin.
 - C. The candle went off
 - D. The candle continued burning.
38. Which one of the following methods of controlling weeds will pollute the environment?
- A. Use of herbicide
 - * B. Slashing
 - C. Digging the moist
 - D. Uprooting
39. The following are signs and symptoms of a certain sexually transmitted infection.
- (i) Pain when passing out urine.
 - (ii) Drops of pus on male penis
 - (iii) Swollen testicles
 - (iv) Swelling of knees and other body joints.
- The disease is **LIKELY** to be
- A. Syphilis
 - B. Gonorrhoea
 - C. Chancroid
 - D. Genital herpes
40. Which one of the following is **NOT** away of controlling water pollution?
- A. Avoid dumping of industrial waste in water sources.
 - B. Drawing of water for the animals.
 - C. Swimming in water sources.
 - D. Clearing accidental spills as soon as they happen.

41. A ruler appear bent when part of it is dipped in water because light rays are refracted
- A. from the part of the ruler outside the water.
 - B. in the air a before reaching the water.
 - C. in the water.
 - D. at the border between air and water.

42. The diagram below shows a certain machine in use.



The force being measured by the above machine is called

- A. mass
 - B. weight
 - C. friction
 - D. magnetic
43. The following are characteristics of clouds
- (i) Dark grey in colour
 - (ii) High in the sky
 - (iii) Are mountainous
 - (iv) Flat based
 - (v) Irregular in shape
- Which one of the above characteristics show Cumulus clouds and Nimbus **RESPECTIVELY**?
- A. (v) and (ii)
 - B. (i) and (v)
 - C. (ii) and (iv)
 - D. (iv) and (v)

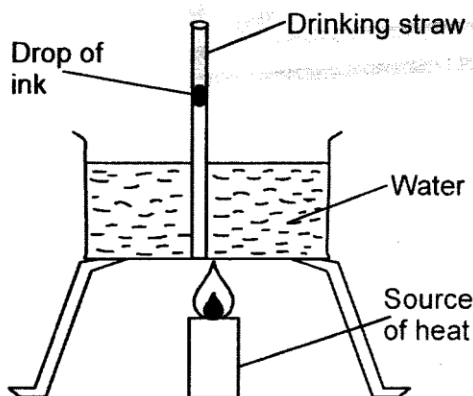
44. Jane was trying to drop small papers on fire. What was the most **LIKELY** thing that happened to the paper?

- A. The papers moved upward.
- B. The papers dropped in the fire.
- C. The papers moved upward then dropped in the fire.
- D. The paper melted.

45. Which one of the following is **NOT** a function of the placenta?

- A. Allow movement of food nutrient from mother to the embryo.
- B. Allow antibodies to pass from the mother to the foetus.
- C. Allow carbon dioxide to pass from the mother to the embryo.
- D. Produces hormones that stop ovulation and menstruation during pregnancy.

46. The diagram below represents a set up used by pupils to demonstrate a certain process. After the drop of ink was deposited at the bottom of jar, the jar was heated from the bottom as shown.



Which process was being investigated?

- A. Expansion
- B. Convection
- C. Conduction
- D. Radiation

47. Which one of the following food materials can be preserved by use of ashes?

- A. Meat
- B. Fish
- C. Potato tubers
- D. Fruits

48. Which one of the following is **NOT** a characteristic of the alligator?

- A. Lay unfertilized eggs.
- B. Has varying body temperature.
- C. Breath through lungs.
- D. Has scale on its body.

49. Which one of the following pair is a source of current electricity?

- A. Dam and dynamo.
- B. Lighting and wind driven turbine.
- C. Torch and dynamo
- D. Dry cell and geothermal generator.

50. Below shows a list of plants

- (i) fern
- (ii) mushroom
- (iii) toadstool
- (iv) maize
- (v) moss
- (vi) liverwort

Which pair shows a plant that can make its own food and another one that **CANNOT** make its own food respectively?

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