

K.C.P.E SECOND TRIAL

STANDARD EIGHT 2020

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

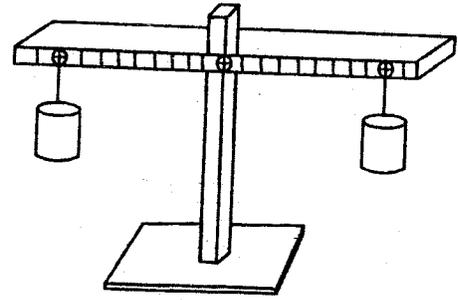
1. Which one of the following groups of drugs are legal in Kenya but harmful.
 - A. Bhang, heroine, mandrax
 - B. Heroin, khat, tobacco.
 - C. Tobacco, khat, alcohol.
 - D. Beer, tobacco, bhang.

2. A child had the following signs:
 - (i) *Diarrhoea with mucus.*
 - (ii) *Dehydration*
 - (iii) *Severe stomach ache.*
 - (iv) *Abdominal pains.*
 Which precaution should be taken to prevent the spread of above disease?
 - A. Observing cleanliness
 - B. Eating well cooked food.
 - C. Isolating the sick.
 - D. Eating a well balanced diet.

3. Which one of the following activities help to transmit HIV?
 - A. Mosquito bite
 - B. Shaking hand.
 - C. Sharing utensils
 - D. Breast feeding

4. Which one of the following is a health effect of HIV/AIDS?
 - A. Violence
 - B. Impaired judgements
 - C. Marital conflicts
 - D. Rape

5. The diagram below represents a simple beam balance.

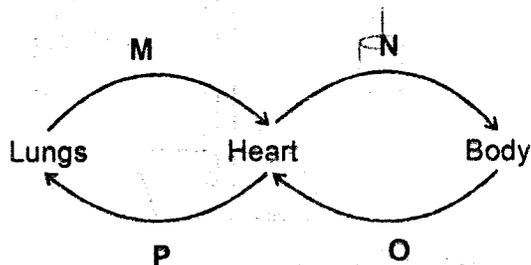


- Which is the last step when making it
- A. fixing the stand and the arm to the base.
 - B. suspending the arm to find balancing point.
 - C. suspending the tins on both side.
 - D. making the base, stand and the arm.
6. Which one of the following is **TRUE** about friction?
 - A. Making work more efficient.
 - B. Useful in swimming and flying.
 - C. Increases motion.
 - D. Increasing by treading.

 7. Which one of the following is **NOT** a maintenance done in **ALL** simple tools?
 - A. Proper storage.
 - B. Repairing broken parts.
 - C. Proper usage.
 - D. Oiling and greasing.

 8. Force can do all the following **EXCEPT**.
 - A. Causes motion
 - B. Changes the shape of an object.
 - C. Changes the state of an object.
 - D. Stop a moving object.

9. The diagram below represent a simple blood circulatory system



The vessels that have valves are represented by letter.

- A. P and N
 B. O and M
 C. M and N
 D. P and O
10. What happens to the ribs during inhalation?
 A. Move downward and flatten.
 B. Moves upward and outward.
 C. Expand and contract.
 D. Moves downward and outward.
11. In human body, the release of sex cell takes place in the
 A. fallopian tube
 B. urethra
 C. ovary and testis
 D. testis only
12. Which one of the following is the first stage of birth process in humans?
 A. Dilation of the cervix
 B. Contraction of the uterus.
 C. Bursting of the amniotic sac.
 D. Cutting of the umbilical cord.

13. How many incisors and molars are in the upper jaw of an adult **RESPECTIVELY**.

- A. 4 and 6
 B. 2 and 4
 C. 4 and 4
 D. 8 and 12

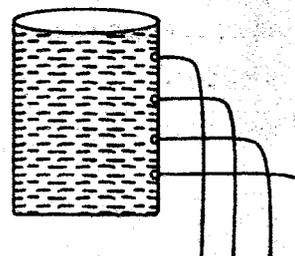
14. Which is the **BEST** procedure of separating a mixture of maize, bean and sugar?

- A. Dissolving, filtering, picking, evaporation.
 B. Picking, filtering, dissolving, evaporation.
 C. Picking, dissolving, filtering, evaporation.
 D. Winnowing, dissolving, filtering, evaporation.

15. Which one of the following is a use of a gas that is approximately 21% in the atmosphere?

- A. Used by plants to make food.
 B. Used in preserving soft drinks.
 C. Used by leguminous to make proteins.
 D. Support burning.

16. Study the diagram below



The diagram shows that pressure in the liquid

- A. increases with depth.
 B. increases with height.
 C. decreases with depth.
 D. is equal at the same depth.

17. Which one of the following consists of substances that have no definite volume but have definite mass?

- A. Oil and water
- B. Oxygen and water vapour
- C. Stone and candle wax
- D. Water vapour and toothpaste

18. Which two processes changes steam into ice?

- A. Melting and freezing
- B. Evaporation and melting
- C. Condensation and freezing
- D. Evaporation and condensation

19. Which one will expand **MOST** on heating?

- A. metal
- B. candle wax
- C. steam
- D. water

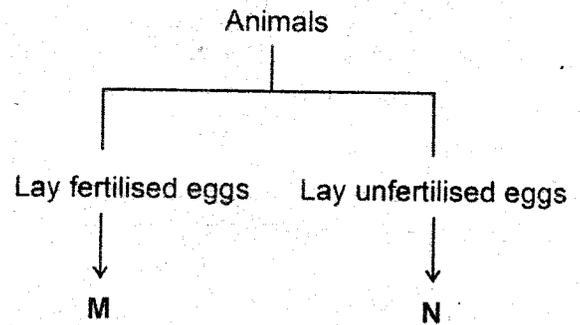
20. A snake moves by

- A. gliding
- B. crawling
- C. walking
- D. slithering

21. Which one of the following is **NOT** a control measure of livestock parasite?

- A. pruning
- B. dipping
- C. spraying
- D. paddocking

22. The chart below shows a simple classification of animals.



The animal N and M can be **BEST** represented by

- | N | M |
|---------------|-----------|
| A. Tortoise | Frog |
| B. Tilapia | Newts |
| C. Salamander | Crocodile |
| D. Bat | Dove |

23. Which one of the following animal feed is **NOT** a pasture?

- A. Desmodium
- B. Star grass
- C. Napier grass
- D. Lucern

24. Which one of the following statements about windvane is **NOT TRUE**?

- A. The tail should be larger than the arrow head.
- B. It should be placed in an open space.
- C. The arrow points the direction in which the wind is blowing to.
- D. It has a compass.

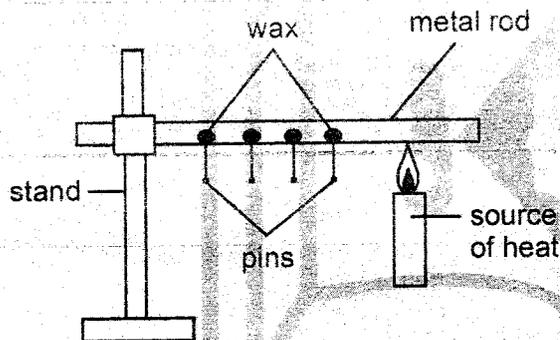
25. Clouds are classified into mountainous and feathery due to their

- A. colour
- B. appearance
- C. weight
- D. height

26. In the solar system, mars is found between
- Jupiter and Saturn
 - Saturn and Uranus
 - Mercury and Neptune.
 - Earth and Jupiter.

27. The property of light used in the mirror is that light
- travel in a straight line.
 - is refracted.
 - passes through transparent material.
 - bounces back.

28. The diagram below represents a certain property of matter.



The pin fell after sometime due to

- convection and conduction.
 - radiation only.
 - conduction only.
 - radiation and conduction.
29. Which one of the following materials work the same way as oiled paper?
- Windscreen
 - Clear water
 - Fronted glass
 - Wood

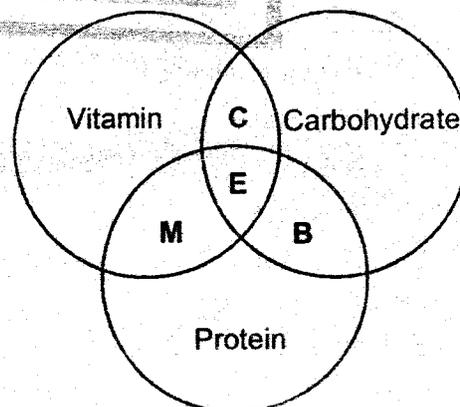
30. The following are uses of heat EXCEPT.
- Cooking food.
 - Warming the house.
 - Discouraging pests.
 - Drying grain.

31. What will happen to balloons brought together when rubbed with two different materials?
- attract
 - repel
 - remain the same
 - neither repel nor attract.

32. The following are artificial sources of heat EXCEPT.

- Sun
- Electricity
- Candle
- Fire

33. The diagram below shows a simple classification of food.



Which of the following food can be represented by E?

- Groundnut
- Ugali
- Milk
- Fish

34. Which one of the following nutritional deficiency diseases is caused by lack of a certain minerals?

- A. Marasmus and kwashiorkor.
- B. Kwashiorkor and anaemia.
- C. Anaemia and ricket.
- D. Marasmus and ricket.

35. Which one of the following method of preserving food is **BOTH** modern and traditional?

- A. Smoking
- B. Salting
- C. Canning
- D. Drying

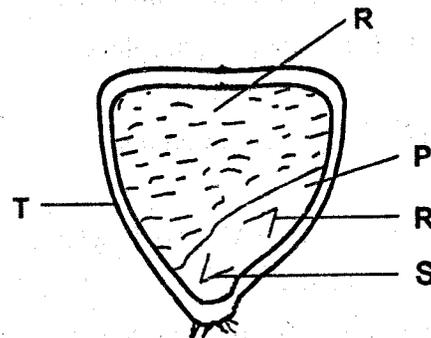
36. Which one of the following pairs of plant do not make their own food?

- A. mushroom and moulds.
- B. ferns and liverworts.
- C. moss and algae
- D. mushroom and moss

37. Which one of the following weeds have thorn on the stem and leaves?

- A. Thorn apple
- B. Oxalis
- C. Black jack
- D. Sodom apple

38. The diagram below shows a maize grain



Which two parts forms the embryo?

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

39. Which one of the following is an effect of pests on animals?

- A. Lower yields.
- B. Cause diseases to consumers.
- C. Reduce quality of produce.
- D. Transmit diseases to crop.

40. Which one of the following plants store food the same part as an onion?

- A. Kales
- B. Sugarcane
- C. Carrot
- D. Yam

41. Which one of the following statement is **TRUE** about loam soil?

- A. Make the shortest ribbon.
- B. Best in modelling
- C. Easily water logged.
- D. Has large air space.

42. The following are examples of nitrogenous fertilizer EXCEPT.
- A. Calcium ammonium nitrate.
 - B. Diammonium phosphate.
 - C. Urea
 - D. Sulphate of ammonium
43. Soil texture is MAINLY determined by
- A. amount of soil.
 - B. ability of soil to drain water.
 - C. size of particles.
 - D. air spaces in the soil.
44. Which one of the following human activities will help to control soil erosion.
- A. Mining
 - B. Overstocking
 - C. Cultivating near rivers.
 - D. Afforestation
45. Which one of the following is a signs of malaria?
- A. Skin rashes
 - B. Persistence cough
 - C. Pain in the muscle
 - D. Shivering and sweating
46. Which one of the following water pollutants reduces air concentration in the water for animals?
- A. Acid rain
 - B. Oil spillage
 - C. Floods
 - D. Farm chemicals
47. Tendrils are modified
- A. root
 - B. stem
 - C. leaf
 - D. branch
48. Which one of the following parts of the skin is found in dermis and epidermis?
- A. Root hair
 - B. Sweat duct
 - C. Sweat pores
 - D. Sweat gland
49. The following are signs of a certain sexually transmitted disease.
- (i) Painless sore
 - (ii) Skin rashes
 - (iii) Sore throat
- The disease is LIKELY to be
- A. Gonorrhoea
 - B. Chancroid
 - C. HIV/AIDS
 - D. Syphilis
50. The following are function of amniotic fluid EXCEPT.
- A. Facilitate the removal of waste.
 - B. Keep the foetus moist.
 - C. Acts as a shock absorber.
 - D. Warms the foetus.