

TARGETER KCPE THIRD MERIT STANDARD EIGHT - YEAR 2022

SCIENCE

Time: 1 hour 40 mins

INSTRUCTIONS TO CANDIDATES (Read these instructions carefully).

- You have been given this question booklet and a separate answer sheet. The question booklet contains 50 questions. 1.
- 2. Do any necessary rough work in this booklet.
- When you have chosen your answer, mark it on the ANSWER SHEET, not in the question booklet. 3.

HOW TO USE THE ANSWER SHEET.

- Use an ordinary pencil only. 4.
- 5. Make sure that you have written on the answer sheet:-

YOUR INDEX NUMBER

YOUR NAME

NAME OF YOUR SCHOOL

- 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.
- Keep your answer sheet as clean as possible and do not fold it. 8.
- For each of the questions 1-50, four answers are given. The answers are lettered A, B, C, D. In each case, only ONE of the four answers is correct. Choose the correct answer.
- 10. On the answer sheet, show the correct answer by drawing a dark line inside the box in which the letter you have chosen is written.

Example:-

In the Question Booklet:

- 16. Blood from the heart to the lungs flow through
 - A. venacava
 - B. pulmonary artery
 - C, aorta
 - D. pulmonary vein.

The correct answer is B.

On the Answer sheet:



IS [A] [B] [C] [D]



[5] [A] [B] [C] [D]



IAI IBI ICI IDI



[A] [B] [C] [D]

In the set of boxes number 16, the box with letter B printed in it is marked.

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

This question paper consists of 7 printed pages.



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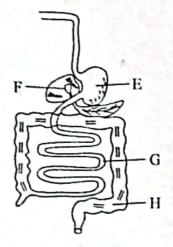
TURN OVER

- 1. Which one of the following is not a sign of an unhealthy crop?
 - A. Curled leaves.
 - B. Stem discolouration.
 - C. Stunted growth.
 - D. Dark green leaves.
- The main reason why some manure should be added to the compost heap is to
 - A. keep off bacteria
 - B. add nutrients to the heap
 - C. keep the compost heap cool
 - D. feed the decomposers.
- 3. Which one of the following ways cannot be used to control tapeworms and liverfluke?
 - A. Dosing.
 - B. Dipping.
 - C. Rotational grazing.
 - D. Drenching.
- The following are functions of amniotic fluid except
 - A. protects the foetus from shock
 - B. facilitates transfer of wastes from foetus to the mother
 - C. keeps the foetus moist
 - D. enables free movement of foetus.
- The force of gravity acting on an object can be measured using
 - A. spring balance
 - B. a ruler
 - C. beam balance
 - D. tape measure.

 The food chain below represents a feeding relationship in a grassland.

Green plants →mice→ snake→ wildcat
Which one of the following would be the
last to be affected if there is prolonged
drought?

- A. Mice.
- B. Wildcat.
- C. Snake.
- D. Green plants.
- 7. The following internal parasites attack the small intestines. Which one does not?
 - A. Liverflukes.
 - B. Lungworms.
 - C. Hookworms.
 - D. Tapeworms.
- 8. The diagram below shows the digestive system



Which one of the following parts is incorrectly matched with its function?

Part Function

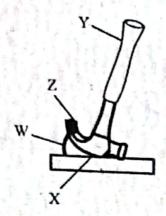
A. E - Digestion of proteins.

B. F - Stores bile.

C. G - Completes digestion

D. H - Digestion of fats and oil.

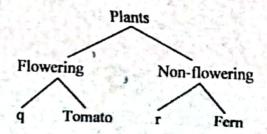
The diagram below shows a lever in use



Which one of the following parts labelled W, X, Y, Z shows the position of fulcrum while the lever is in use?

- A.Z
- B. W
- C. X
- D.Y
- 10. Which pair consists of sources of heat only?
 - A. Firefly and sun.
 - B. Gas and electricity.
 - C. Candle and torch.
 - D. Star and dry cells.
- The soil that has high capillarity is also likely to
 - A. have good drainage
 - B. have coarse texture
 - C. have poor water retention ability
 - D. have cracks when dry.
- 12. Which one of the following is the most effective method of controlling weeds in a wheat plantation?
 - A. Digging them out.
 - B. Using chemicals.
 - C. Uprooting-
 - D. Slashing.

- 13. Which one of the following is **not** a sign of pregnancy?
 - A. Tender breasts.
 - B. Menstrual flow stops.
 - C. Onset of menstrual flow.
 - D. Nausea.
- 14. Which one of the following consists of a pair of sources of current electricity?
 - A. Torch and dry cell.
 - B. Car battery and solar panel.
 - C. Wind and petrol driven generator.
 - D. Dam and diesel generator.
- 15. Which one of the following materials is transparent?
 - A. Air.
 - B. Milk.
 - C. Mirror.
 - D. Skylight.
- 16. The chart below represents classification of plants



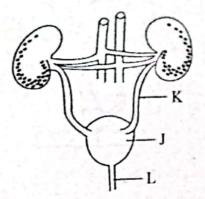
Which one of the following correctly matches the identity of plants q and r?

q	r
A. Algae	Mango
B. Maize	Moss
C. Liverworts	Cotton
D. Coffee	Rice

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TURN OVER

- 17. Which one of the following is a preventive measure against being struck by lightning?
 - A. Wearing shoes with thick rubber soles.
 - B. Leaning against the walls.
 - C. Walking on open field when it is raining.
 - D. Sheltering under a tree.
- 18. Sound does not travel through
 - A. air
 - B. vacuum
 - C. solids
 - D. water.
- 19. Three of the following are ways of conserving water. Which one is not?
 - A. Mulching.
 - B. Using drip irrigation.
 - C. Using sprinkler irrigation.
 - D. Reusing water.
- 20. The following are methods of controlling soil erosion. Which one is not?
 - A. Planting cover crops.
 - B. Building porous dams.
 - C. Ploughing along the slope.
 - D. Contour farming.
- 21. Plants that have flexible stems and shallow roots are also likely to
 - A. have thick cuticles
 - B. have increased number of stomata
 - C. have needle-like leaves
 - D. have reduced number of stomata.

The diagram below shows an excretely system

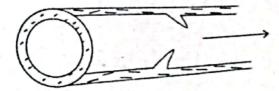


The parts labelled J, K and L respectively are

J	K	L
A. Urethra	Bladder	Ureter
B. Ureter	Bladder	Urethra
C. Bladder	Ureter	Urethra
D. Ureter	Urethra	Bladder.

- 23. The damage caused by stalkborers is mainly
 - A. making holes in grains
 - B. boring and damaging stems
 - C. making holes in the leaves
 - D. destroying the roots.
- 24. In which stage of HIV/AIDS infection does the patient test negative and shows no signs?
 - A. Asymptomatic stage.
 - B. Symptomatic stage.
 - C. Window stage.
 - D. Full blown stage.
- 25. The force that opposes motion cannot be reduced by
 - A. streamlining
 - B. smoothening surfaces
 - C. using lubricants
 - D. treading.

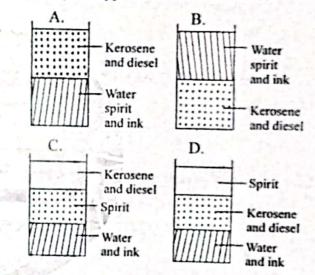
26. The diagram below shows a blood vessel



Which statement is not true about the blood vessel?

- A. It carries blood to the heart.
- B. It has thin inelastic walls.
- C. It carries blood at a high pressure.
- D. It has a wide opening.
- 27. The following are advantages of stall feeding except
 - A. collection of manure is easy
 - B. it is labour intensive
 - C. requires a small space
 - D. it is easy to control parasites.
- 28. Which one of the following is not a high nitrogenous fertiliser?
 - A. Blood meal.
 - B. Urea.
 - C. Sulphate of Ammonia.
 - D. Bone meal.
- 29. Which of the following is not a sign of animal infested with parasites?
 - A. Loss of appetite.
 - B. Irritation.
 - C. Rise in body temperature.
 - D. Smooth coat.

- 30. Which one of the following groups of food is recommended for a child who has brown hair and sores at the corner of the mouth?
 - A. Milk, beef, eggs.
 - B. Liver, spinach, pineapple.
 - C. Ugali, eggs, chapati.
 - D. Orange, mango, rice.
- 31. Standard 7 pupils mixed the following five liquids: water, ink, kerosene, spirit and diesel. Which diagram shows how the liquids appeared in the container?



- 32. Which one of the following is a social effect of abusing drugs?
 - A. Withdrawal symptoms.
 - B. Addiction.
 - C. Truancy.
 - D. Convulsions.
- 33. Which of the following major components do plants and animals depend on directly?

Scanned with CamScanner

- A. Water and air.
- B. Air and soil.
- C. Sound and light.
- D. Water and soil.

34. The diagram below represents a certain weather instrument

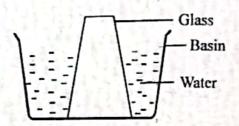


Which one of the following statements is true about the instrument? It

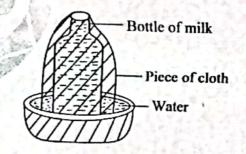
- A. works under the principle of matter occupies space
- B. is placed 15cm above the ground to make it visible
- C. is dug 30cm below the soil to prevent splashing rain water from getting in
- D. is kept in an open place to prevent evaporation of water.
- 35. Wearing protective clothing when handling stagnant water and proper sanitation can help in controlling the spread of
 - A. bilharzia only
 - B. cholera and malaria
 - C. typhoid and bilharzia
 - D. malaria and bilharzia.
- 36. Which of the following groups of crops consists of cereals only?
 - A. Maize, millet, sunflower.
 - B. Peas, greengrams, groundnuts.
 - C. Rice, wheat, sorghum.
 - D. Beans, maize, peas.
- 37. Which one of the following groups consists of legal drugs?
 - A. Miraa, tobacco, alcohol.
 - B. Heroin, miraa, tobacco.
 - C. Alcohol, khat, mandrax.
 - D. Khat, heroin, alcohol.

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38. The set up below shows that



- A. air exerts pressure
- B. matter has mass
- C. liquids exert pressure
- D. matter occupies space.
- 39. Which of the following animals consists only of invertebrates?
 - A. Snail, grasshopper, newt.
 - B. Lizard, snake, rat.
 - C. Slug, turtle, spider.
 - D. Crab, millipede, mite.
- 40. The traditional method of food preservation shown below preserves food by

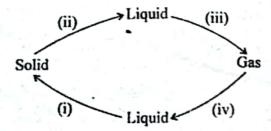


- A. coating the food
- B. making the food airtight
- C. reducing water
- D. lowering its temperature.
- 41. Animals like earthworms and millipedes live in the soil. These animals obtain oxygen from
 - A. soil.
 - B. water.
 - C. plants.
 - D. atmosphere.

- 42. Which one of the following sexually transmitted infections can lead to madness if not treated?
 - A. Gonorrhoea.
 - B. Chancroid.
 - C. Syphilis.
 - D. HIV and AIDS.
- 43. Which one the following livestock parasites cannot be controlled by rotational grazing?
 - A. Fleas.
 - B. Tsetse flies.
 - C. Roundworms.
 - D. Ticks.
- Standard 6 pupils collected the following materials during a Science practical lesson.
 - (i) Water in a basin
 - (ii) A clean mirror
 - (iii) A white board

Which aspect of light were they investigating?

- A. Dispersion of light.
- B. Reflection of light.
- C. How light travels.
- D. Bending of light.
- 45. The illustration below shows the processes that bring about changes in states of matter.



Which letters represent a pair of processes that requires an increase and a decrease in temperature respectively?

- A. i and ii
- B. ii and iii
- C. i and iv
- D. iii and iv

- Clouds which most often give rise to rainfall are
 - A. thick, white and appear like bundles of cotton wool
 - B. white in colour and appear high in the sky
 - C. dark-grey in colour and have a mountainous shape
 - D. high, feathery and made up of rounded masses.
- 47. Which one of the following is **not** important to consider when buying medicine from a chemist?
 - A. The date of manufacture.
 - B. How to store medicine.
 - C. The expiry date.
 - D. Prescription.
- 48. Which of the following groups consists of materials that can be attracted by a magnet?
 - A. Aluminium foil, iron, pin.
 - B. Copper turnings, steelwool, tin.
 - C. Needle, iron filings, staple pins.
 - D. Pin, copper coin, steelwool.
- 49. Which one of the following types of soil erosion is most likely to cause a landslide?
 - A. Rill erosion.
 - B. Sheet erosion.
 - C. Gulley erosion.
 - D. Splash erosion.
- 50. A class seven pupil accidentally mixed sand, iron filings and salt. Which is the correct order to follow for the pupil to obtain salt only?
 - A. Use of a magnet, dissolving, filtering and evaporation.
 - B. Dissolving, filtering and evaporation.
 - C. Use of magnet, filtering, dissolving and evaporation.
 - D. Filtering, dissolving, use of magnet and evaporation.

SCIENCE STD. 8