

STANDARD EIGHT

SIGNAL 003

SIGNAL EXAMS 2020 THIRD K.C.P.E SIGNAL SCIENCE

Time: 1hr 40min

READ THESE INSTRUCTIONS CAREFULLY

- 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 SECT

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

YOUR INDEX NUMBE

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 grad near the top of the answer sheet.
- 7. Do not make any marks outside the box
- 8. Keep your answer sheet as clean as ressible and do not fold it.
- 9. For each of the Questions 1 50, four answer are given. The answers are lettered A, B, C, and D. In each case only ONE of the four 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.

Exampe

In the question booklet:

- 4. Which one of the following is **not** a source of light?
 - A. Candle
 - B. Lamp
 - C. Torch
 - D. Bulb

The correct answer is D (Bulb)

On the answer sheet:

- 4. [A] [B] [C] 14. [A] [B] [C] D] 24. [A] [B] [C] D] 34. [A] [B] [C] D] 44. [A] [B] [C] D]

 In the set of boxes numbered 4, the box with the letter D is 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 8 printed pages.

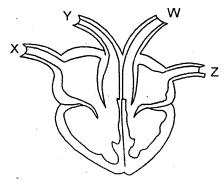
© Signal Publishers Limited 2020

Website: www. signalpublishers.com. Email. info@signalpublishers.com





- 1. Which one of the following shows the **correct** path followed by urine?
 - A. Ureter \rightarrow kidney \rightarrow urethra.
 - B. Kidney→ ureter → urethra.
 - . C. Urethra \rightarrow ureter \rightarrow kidney.
 - D. Kidney \rightarrow urethra \rightarrow ureter.
- 2. The following are effects of wind except
 - A. felling trees
 - B. blowing soil away
 - C. sailing boats
 - D. blowing roofs off.
- 3. The diagram below represents a mammalian heart.



Which one of the following statements is **correct** about blood vessels **X**, **Y**, **W** and **Z**?

- A. Y- Carries blood at high pressure.
- B. Z- Receives blood from the body parts.
- C. X- Carries oxygenated blood.
- D. W- Has valves.

- **4.** Which one of the following is **not** an adaptation of animals to flying?
 - Presence of
 - A. wings
 - B. streamlined body
 - C. webbed feet
 - D. hollow bones.
- 5. Which one of the following is **not** a way of conserving water?
 - A. Harvesting of water.
 - B. Recycling of water.
 - C. Re-using of water.
 - D. Treating water.
- **6.** Which of the following is the last stage during birth process?
 - A. Expulsion of after birth
 - B. Cutting of umbilical cord.
 - C. Release of amnion fluid.
 - D. Coming out of the baby.
- 7. The diagram below represents a set-up that was used to demonstrate a certain property of matter.



The property demonstrated was that

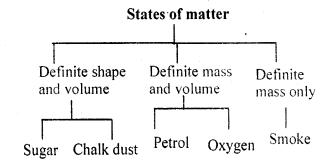
- A. air has mass
- B. air exerts pressure
- C. air expands when heated
- D. air occupies space.

- 8. Which one of the following materials does not allow light to pass through?
 - A. Oiled paper
 - B. Clean water
 - C. Skylights
 - D. Mirror.
- 9. Which one of the following methods of food preservation keeps off air?
 - A. Canning.
 - B. Refrigeration.
 - C. Sun drying.
 - D. Use of low temperature.
- 10. People with HIV and AIDS need all the following except
 - A. love and support
 - B. proper hygiene
 - C. isolation
 - D. good medical care.
- Which one of the following foods is a 11. source of oil?
 - A. Avocado
 - B. Green grams
 - C. Milk
 - D. Groundnuts.
- **12.** Which of the following statements describes incisors teeth? They
 - A. are used for tearing food
 - B. are chisel like
 - C. have cusps and ridges
- D. have one root and are sharp pointed.

- **13**. Class 6 pupils were asked by their Science teacher to collect the following materials.
 - (i) Cardboard
 - (ii) Candle
 - (iii) Thread
 - (iv) Match box

Which one of the following aspects of light were they likely to investigate?

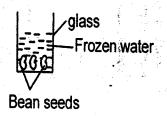
- A. Light travels in a straight line.
- B. Light is reflected.
- C. Light bends when it travels from one medium to the other.
- D. Light travels in all directions.
- The chart below shows simple 14. classification of the states of matter.



Which one of the following states of matter is wrongly classified?

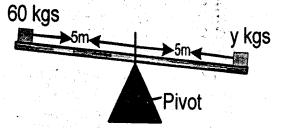
- A. Sugar
- B. Petrol
- C. Smoke
- D. Oxygen.

- 15. The following are ways of handling food properly except
 - A. covering food well while preparing it
 - B. puting small amount of food in the mouth at a time
 - C. washing oranges before eating
 - D. thorough washing of utensils.
- 16. In an investigation on sound energy, pupils were asked to drop their Science text books from different heights on their lockers. Which of the following aspects of sound were they investigating?
 - A. Loud and soft sound.
 - B. Special sound.
 - C. Sound pollution.
 - D. Pitch of sound.
- 17. Which one of the following is a common characteristic between chicken and fish? They
 - A. breathe through lungs
 - B. are warm blooded
 - C. lay fertilised eggs
 - D. have scales.
- 18. Standard six pupils set up an experiment as shown below.



Which condition of germination were they investigating?

- A. Air
- B. Temperature
- C. Moisture
- D. Light.
- 19. Which one of the following types of manure provide specific nutrients to the soil?
 - A. Diammonium phosphate.
 - B. Organic mulches.
 - C. Green manure.
 - D. Farm yard manure.
- **20.** Birds that suck nectar from flowers have
 - A. a serrated beak
 - B. a short, strong and straight beak
 - C. feet with sharp and strong claws
 - D. a long slender and slightly curved beak.
- 21. The diagram below shows a sea-saw.



Which statement is **true** about the sea saw above?

- A. Y is lighter than 60kgs.
- B. For balancing Y should be moved away from the pivot.
- C. Y is equal to 60kgs.
- D. For balancing the distance between Y and the pivot should be reduced.

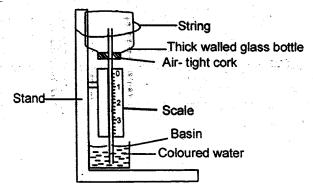
SIGNAL/SCIE/STD.8

- 22. Which one of the following statements describes window stage in HIV infection?

 The patient
 - A. tests negative and appears unhealthy
 - B. appears healthy and shows signs
 - C. test positive and shows no signs
 - D. appears healthy and tests negative.
- 23. The following are characteristics of a certain soil.
 - (i) Good capillarity.
 - (ii) Poor drainage.
 - (iii) Small air spaces.

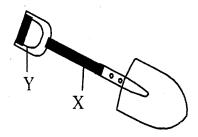
The type of soil described above is

- A. clay soil
- B. a mixture of loam soil and sand soil
- C. sand soil
- D. loam soil.
- 24. A child with brown thin hair that falls off easily should be fed with plenty of
 - A. carbohydrates
 - B. balanced diet
 - C. minerals
 - D. proteins.
- 25. Pupils constructed the weather instrument below.



- Which mistake was made in the construction of the instrument?
- A. Using a thick walled glass bottle.
- B. Using coloured water.
- C. Using a narrow straw.
- D. The labelling of the scale.
- 26. Which one of the following components of environment is a means of transport and recreation?
 - A. Animals
 - B. Water
 - C. Air
 - D. Soil.
- 27. The following are safety precautions when using simple tools except
 - A. ensuring the handle is firmly fixed
 - B. cutting edge should face away from ones body
 - C. oiling and greasing metallic parts
 - D. handling the tool firmly when in use.
- 28. Which one of the following pairs of plants have the same type of root system?
 - A. Kales and beans.
 - B. Maize and peas.
 - C. Cabbage and coconut.
 - D. Groundnut and wheat.

29. The diagram below represents a lever when in use.



The parts represented by \boldsymbol{X} and \boldsymbol{Y} are

X

 $\boldsymbol{Y}\cdot$

A. Fulcrum

Effort

B. Load

Fulcrum

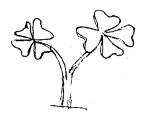
C. Fulcrum

Load

D. Effort

Fulcrum

30. The diagram below show a certain type of weed.



The type of weed shown above

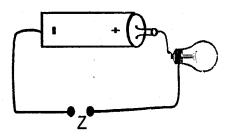
- A. is poisonous
- B. has pink flowers
- C. spreads on the ground
- D. has a tap root system.
- 31. A weighing scale is used for
 - A. measuring mass of objects
 - B. measuring force
 - C. comparing volume of liquids
 - D. measuring weight of different objects.

- **32.** Which one of the following consists of **only** female parts of a flower?
 - A. Anthers, pollen grains, stigma.
 - B. Style, stigma, pollen grains.
 - C. Filament, style, anther.
 - D. Style, ovary, stigma.
- **33.** The following statements describe proper use of medicine **except**
 - A. proper labelling of medicine before storage
 - B. taking of the recommended dose
 - C. buying of medicines with a doctors prescription
 - D. medicines that remain should be destroyed.
- 34. Which of the following planets are in the 4th and 6th positions from the sun?
 - A. Mars and Jupiter.
 - B. Earth and Saturn.
 - C. Jupiter and Mars.
 - D. Mars and Saturn.
- **35.** Which one of the following is **not** a rotational grazing method?
 - A. Strip grazing.
 - B. Herding.
 - C. Paddocking.
 - D. Tethering.

::::: :::::

- **36.** Which of the following internal livestock parasites attacks intestines **only**?
 - A. Lungworm.
 - B. Hookworms.
 - C. Liverflukes.
 - D. Roundworms.
- 37. The following are safety measures when handling chemicals at home. Which one is **not**?
 - A. Do not store chemicals near food.
 - B. Store chemicals in a lockable room.
 - C. Wash hands thoroughly with soap before spraying chemicals.
 - D. Do not store chemicals in soft drinks bottles.
- 38. Which one of the following groups consists of non magnetic materials?
 - A. Alnico, bras, gold.
 - B. Steel, aluminium, copper.
 - C. Copper, silver, aluminium.
 - D. Steel, chromium, iron.
- **39.** Which of the following mixtures cannot be separated by decanting?
 - A. Sand and water.
 - B. Flour and kerosene.
 - C. Beans and water.
 - D. Salt and water.
- 40. In an experiment to investigate a certain component of soil, water was added in a clear container with garden soil then shaken and allowed to settle. The component of soil being investigated was
 - A. minerals in soil
 - B. organic matter in soil
 - C. air in soil
 - D. living organisms in soil.

- 41. Which one of the following is **not** an importance of fibre in the diet?
 - A. Facilitates digestion of food.
 - B. Makes the food bulky.
 - C. Facilitates movement of undigested food.
 - D. Makes movement of food during digestion easier.
- **42.** Which one of the following pairs of non-green plants consists of useful fungi **only**?
 - A. Mushroom and yeast. •
 - B. Mucor and toadstool.
 - C. Penicilium and bread mould.
 - D. Puffballs and yeast.
- 43. The diagram below represent a simple circuit in use.



Which one of the following materials when placed at point **Z** will **not** complete the circuit?

- A. Glass plate
- B. Graphite rod
- C. Water
- D. Silver plate.

- 44. Which one of the following statements is **not** correct about a windvane?
 - A. It should be placed in an open place.
 - B. It shows the direction of wind.
 - C. The tail is larger than the head.
 - D. The arrow points to where the wind is blowing.
- **45.** Which one of the following is a method of softening hard water?
 - A. Boiling
 - B. Sieving
 - C. Decanting
 - D. Filtering.
- 46. The diagram below represents a shoe.



When the part marked Q wears out

- A. the grip between the shoe and the ground increases.
- B. the shoe becomes more flexible.
- C. the shoe becomes efficient on slippery surface.
- D. the friction force of the sole reduces.

- **47.** Which one of the following is **not** a function of the placenta?
 - A. Facilitates transfer of food.
 - B. Prevents the foetus from shock.
 - C. Allows exchange of waste products.
 - D. Allows exchange of gases.
- **48.** Which of the following factors allows a cork to float on water?
 - A. Material
 - B. Shape
 - C. Size
 - D. Mass
- **49.** Which one of the following types of erosion is controlled by building of gabions?
 - A. Rill erosion.
 - B. Splash erosion.
 - C. Gulley erosion.
 - D. Sheet erosion.
- **50.** Which one of the following is **not** a way of controlling HIV and AIDS through mass education?
 - A. Seminars
 - B. Bronchures
 - C. Workshops
 - D. Camps.

NB: For a comprehensive revision in Science get yourself a copy of 'SIGNAL K.C.P.E REVISION SCIENCE' from Signal Publishers. AVAILABLE AT BOOKSHOPS COUNTRYWIDE.