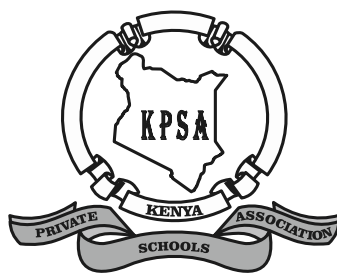


# KENYA PRIVATE SCHOOLS ASSOCIATION



## STD.8 - END -TERM 2 - 2022 SCIENCE

Time: 1 Hour 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 this question booklet.

### HOW TO USE THE ANSWER SHEET

4. Use only 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 three-figure Index 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, 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 line in the box in which the letter you have chosen is written.

#### Example

In the **Question Booklet**:

16. Which one of the following is NOT a method of separating mixtures?

- A. Evaporation
- B. Winnowing
- C. Filtration
- D. Melting

The correct answer is D

On the **Answer Sheet**:

16. [A] [B] [C] [D] 17. [A] [B] [C] [D] 18. [A] [B] [C] [D] 19. [A] [B] [C] [D]

In the set of boxes numbered 16 the box with D printed in it is lined.

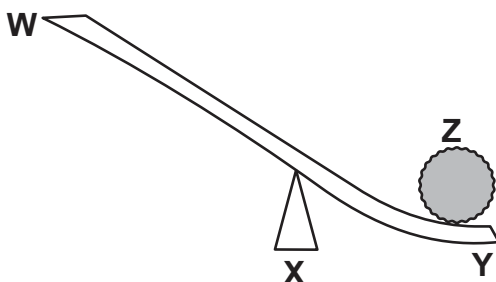
11. Your line **MUST** be within the box. Make your line as **DARK** as possible.
12. For each question, **ONLY ONE** box is to be lined in each set of four boxes.

1. The diagram below represents a certain type of a human tooth.



The function of the tooth is

- A. Gripping and tearing  
 B. Tearing and cutting  
 C. Cutting and biting  
 D. Crushing and chewing.
2. Which one of the following consists of planets with the longest and shortest orbits respectively?
- A. Mercury and earth  
 B. Venus and Jupiter  
 C. Neptune and Mercury  
 D. Earth and Saturn
3. Which one of the following aspect of sound was being investigated when pupils sat at different positions around a pupil playing guitar?
- A. Special sounds  
 B. Loud and soft sound  
 C. Noise pollution  
 D. Direction of sound
4. The diagram below represents a simple machine in use.



The machine can make work easier by increasing the distance between

- A. X and Y  
 B. X and Z  
 C. W and X  
 D. W and Y
5. Inclined planes make work easier by
- A. Changing the direction of force  
 B. Increasing the load distance  
 C. Increasing the effect distance  
 D. Reducing the amount of work to be done.
6. Which one of the following statements is TRUE about the farm yard manures?
- A. They release specific nutrients  
 B. They are easily leached  
 C. They improve soil structure  
 D. They are expensive
7. Which one of the following is not a way of using water sparingly?
- A. Repairing leaking pipes  
 B. Closing taps after use  
 C. Using overhead irrigation  
 D. Reducing pressure in taps when in use.
8. The following are adaptations of plants:
- i) *An increased number of stomata*  
 ii) *Broad leaves*  
 iii) *Thick leaf cuticle*  
 iv) *Leaves with waxy surface*
- Which pair of characteristics is for plants adapted in wet areas?
- A. i and ii  
 B. iii and iv  
 C. ii and iii  
 D. i and iii

9. Which one of the following is a characteristic of both crocodile and salamander?

- A. Have moist skin
- B. Lay fertilized eggs
- C. Breathe through gills
- D. Have varying body temperature.

10. The following process take place when breathing in EXCEPT?

- A. Volume increases in the lungs
- B. Pressure increases in the lungs
- C. The diaphragm flattens
- D. The ribs move upwards and outwards.

11. Which one of the following statement about arteries and veins is not correct?

- A. Arteries have thick elastic walls
- B. All veins carry blood away from the heart
- C. Veins have valves
- D. Arteries are located deep inside the body.

12. Which one of the following drugs is a stimulant when taken in small quantity but a depressant when taken in large amounts?

- A. Bhang
- B. Khat
- C. Alcohol
- D. Cocaine

13. Which one of the following is NOT an importance of water in the diet? Water helps \_\_\_\_\_

- A. To prevent the skin from drying
- B. In the digestion of food
- C. To prevent constipation
- D. In making of blood

14. Which one of the following statements is TRUE about HIV and AIDS?

- A. In window stage, a person may test positive
- B. In symptomatic stage, the body has developed AIDS
- C. In asymptomatic stage, a patient may test positive
- D. The immune system is completely destroyed in symptomatic and full blown stages.

15. The following are some methods of preserving food:

- i) *Canning*
- ii) *Salting*
- iii) *Drying*
- iv) *Use of honey*
- v) *Freezing*

Which of the above methods are traditional?

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

16. Which one of the statements is NOT TRUE about commercial feeds for animals?

- A. They are given mainly for protection against diseases
- B. Some are given as the only feed
- C. They are given mainly to increase production
- D. Some are given together with other feeds.

17. The functions of valves found in the heart and veins is to

- A. Transport oxygen
- B. Assist in blood clotting
- C. Prevent the flow of blood
- D. Prevent the backflow of blood

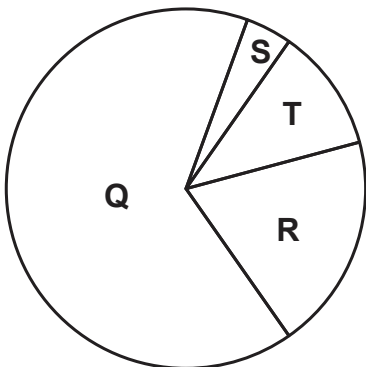
18. Which one of the following factors makes a log of wood float on water?

- A. Mass of the wood
- B. Size of the wood
- C. Shape of the wood
- D. Type of material

19. Which one of the following plant seeds store their food in the endosperm?

- A. Green grams
- B. Millet
- C. Beans
- D. Peas

20. The diagram below shows the approximate composition of air



The part of air used when welding metal is marked?

- A. T
- B. Q
- C. R
- D. S

21. Which one of the following energy transformation takes place when a radio that uses dry cells is switched on?

- A. Chemical → electrical → magnetic → kinetic → sound
- B. Magnetic → electrical → kinetic → chemical → sound
- C. Electrical → chemical → kinetic → magnetic → sound
- D. Kinetic → chemical → electrical → magnetic → sound

22. Which one of the following does not pollute the air?

- A. Exhaust gases
- B. Smoke from burning charcoal
- C. Smoke from burning domestic wastes
- D. Gases from decaying plant materials

23. Which one of the following is an adaptation for hopping and leaping animals?

- A. Long and strong hind limbs
- B. Streamlined bodies
- C. Short and muscular front legs
- D. Soft body.

24. Which one of the following effects of HIV infection does not affect the nation?

- A. Congestion in hospitals
- B. Poor economy
- C. Increase in the number of school dropouts
- D. Poor performance at the place of work

25. The following parasites can be found in the lungs of an infected animal EXCEPT?

- A. Lungworms
- B. Tapeworms
- C. Roundworms
- D. Liver flukes

26. The following are signs and symptoms of a certain disease:

- i) *Shivering*
- ii) *Headache*
- iii) *Pain in the joints*
- iv) *Lack of enough blood*
- v) *Vomiting and diarrhea*

Which communicable disease is described above?

- A. Tuberculosis
- B. Malaria
- C. Typhoid
- D. Common cold

27. Which one of the following effects of pests on crops is not correct?

- A. Lower yields
- B. Reduced quality of produce
- C. Transmission of diseases to crops
- D. Curled leaves

28. Which one of the following provides a newborn baby with antibodies?

- A. Breast milk
- B. Colostrum
- C. Porridge
- D. Warm water

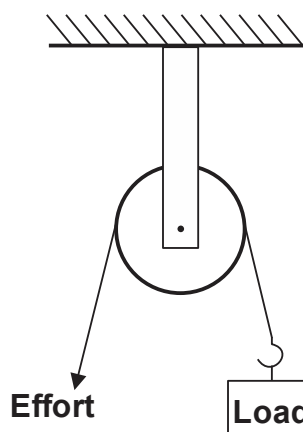
29. Three of the following are reasons for preserving foods. Which one is NOT?

- A. Preserved food can be sold at better prices
- B. Keeping food for future use
- C. It allows easier transportation
- D. Preserved food add more nutrients

30. Which one of the following is a source of non-renewable energy?

- A. Paraffin
- B. Cow dung
- C. Fire wood
- D. Sun

31. Which one of the following is NOT true about the simple machine draw below?



- A. It reduces the work done
- B. The effort distance is equal to the load distance
- C. It makes the user apply force conveniently
- D. The effort applied is equal to the load

32. During digestion process, water and mineral salts are absorbed in the \_\_\_\_\_

- A. Mouth
- B. Small intestines
- C. Large intestines
- D. Stomach

33. Which one of the following groups of machines consists of inclined planes only?

- A. Spade, fishing rod, hammer
- B. Ladder, staircase, ramp
- C. Crowbar, a road winding up, bottle opener
- D. Jembe, staircase, lid opener

34. Which one of the following farming practices is most effective in conserving moisture in the soil?

- A. Mixed farming
- B. Contour farming
- C. Mulching
- D. Terracing

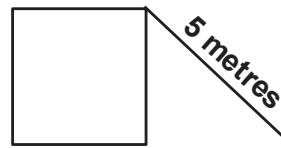
35. Which one of the following mixtures cannot be separated by dissolving, filtering and evaporation?

- A. Sand and sugar
- B. Salt and maize flour
- C. Sugar and chalk powder
- D. Sugar and salt

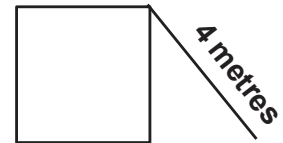
36. Acid rain is formed due to the presence of

- A. Carbon monoxide and oxygen
- B. Water vapour and rain
- C. Carbon dioxide and nitrogen
- D. Sulphur dioxide and carbon dioxide

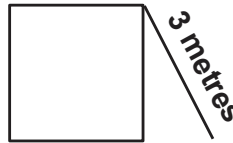
37. Four boys used different slopes as shown below to raise loads of equal weight to a height of 5 metres.



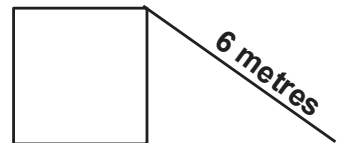
Jim



Moses



Francis



Austin

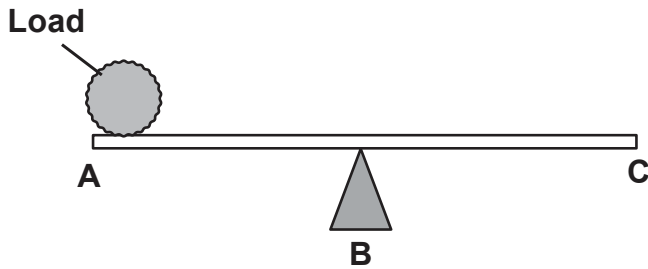
Who use the least effort?

- A. Francis
- B. Austin
- C. Jim
- D. Moses

38. In nature, the amount of oxygen and carbon dioxide in the air remains constant. This is mainly because

- A. Green plants takes in oxygen and release carbon dioxide during photosynthesis process
- B. Green plants take in carbon dioxide and release oxygen while animals take in oxygen and release carbon dioxide
- C. Green plants dissolve bad air and attract rainfall
- D. Green plants take in carbon dioxide and release oxygen during photosynthesis.

39. What would happen if the distance between points A and B was greater than the distance between points B and C in the diagram below?



- A. Point A and point B will balance
- B. Point A will move up
- C. Point B will move down
- D. Point A will move down.

40. The following are cereal crops EXCEPT?

- A. Millet
- B. Peas
- C. Rice
- D. Barley

41. During a science lesson, pupils put dry soil in a glass and added water to cover the soil.

What observation did they make?

- A. Soil contains air
- B. Soil contains water
- C. Soil contains humus
- D. Bubbles were seen

42. The following are signs and symptoms of Anaemia Except?

- A. Breathlessness
- B. Pale white eyes
- C. Muscles wastage
- D. Tiredness

43. The following are waste materials removed by the kidneys except?

- A. Urea
- B. Urine
- C. Water
- D. Salts

44. The following are steps for cleaning the teeth:

- i) Gently brush the tongue
- ii) Rinse the mouth to remove any food particles
- iii) Put some toothpaste on a brush
- iv) Brush the teeth using the downward and upward movements.

Which one of the following steps should be done first?

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

45. Which one of the following is NOT true about the clouds drawn below?



- A. They are low in the sky
- B. They have a flat bottom
- C. They are thick and feathery
- D. They are common in fine weather.

46. Which one of the following plants has the same root system?

- A. Peas and millet
- B. Rice and sorghum
- C. Barley and beans
- D. Maize and groundnuts

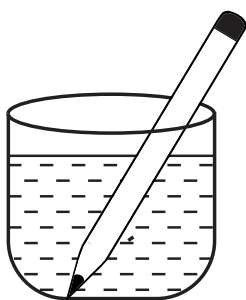
47. The MAIN function of the ileum is to \_\_\_\_\_

- A. Digest starch and proteins
- B. Absorb water and mineral salts
- C. Absorb digested food
- D. Completes digestion of food

48. During heavy thunderstorms, one should avoid \_\_\_\_\_

- A. Wearing a red dress
- B. Warming next to a fire
- C. Charging phones
- D. Walking in a pool of water.

49. Which one of the following statements is INCORRECT about the experiment shown below?



- A. The bending of light takes place below the surface of the water
- B. The experiment shows apparent bending of an object
- C. The pencil appears raised when viewed from the top side
- D. The pencil appears thicker from the side view.

50. The table below shows the sources of constituents of a balanced diet for livestock.

Water	Banana stems
Mineral salts	Sunflower seeds
Vitamins	Molasses
Proteins	Green folder

Which one of the following is correctly matched?

- A. Vitamins
- B. Mineral salts
- C. Proteins
- D. Water