



KISTE EXAMINATION PANEL

BENCHMARK {006}

STD 8 – SCIENCE

Time: 1 Hour 40 Minutes

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 questions 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 Candidate's Number in the grid near the top of the answer sheet.
7. Do not make any marks outside the boxes.
8. Keep the sheet as clean as possible and do not fold it.
9. For each of the questions 1 - 90 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 on the eclipse in which the letter you have chosen is written.

Example

In the question Paper:

27. Planets appear bright because they

- A. are large
- B. produce light
- C. reflect light
- D. all twinkle

The correct answer is C

On the answer sheet

25. [A] [B] [C] [D]

26. [A] [B] [C] [D]

27. [A] [B] [C] [D]

28. [A] [B] [C] [D]

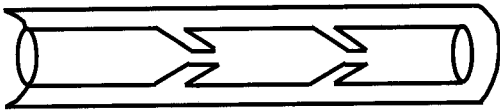
In the **Third** set, the box with the **C** printed in it is marked.

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

This Question Paper consists of 50 Printed Questions.

TURN OVER

1. The diagram below shows a blood vessel.



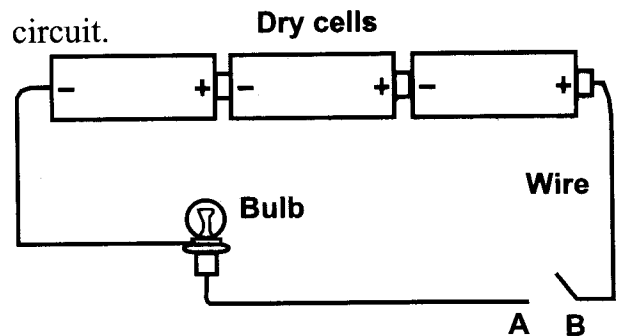
Which of the following statements is not true about it?

- A. It has a wide lumen
 - B. It carries blood under low pressure
 - C. It has a pulse
 - D. It has a narrow lumen
2. Which one of the following consists of a pair of major components of the environment?
- A. Plants and light
 - B. Water and soil
 - C. Animals and heat
 - D. Air and buildings
3. The following are effects of abusing certain drug:
- i) *Memory loss*
 - ii) *Vomiting*
 - iii) *Problems in breathing*
 - iv) *Leads to unconsciousness*
- The drug with the above effects is likely to be
- A. mandrax
 - B. bhang
 - C. heroin
 - D. cocaine
4. Which of the following is the most appropriate method of controlling liverflukes, mites, tapeworms and roundworms in livestock?
- A. Dipping
 - B. Drenching

- C. Rotational grazing
- D. Deworming

5. Three of the following are characteristics of insect-pollinated flowers except
- A. the produce heavy and sticky pollen grains
 - B. they have flat and sticky stigma
 - C. they have large anthers which are loosely attached
 - D. they produce large quantity of light pollen grains

6. The diagram below shows a simple electric circuit.



Which of the following materials cannot be placed at the gap marked AB to make the bulb light?

- A. Glass rod
 - B. Carbon rod
 - C. Aluminium foil
 - D. Graphite
7. Which one of the following statements is NOT correct about hard water?
- A. It requires a lot of soap in order to form lather
 - B. It contains dissolved calcium and magnesium salts
 - C. It causes clogging and blocking of hot water pipes
 - D. It does not stain clothes during laundry

8. Which one of the following diseases can be prevented by draining stagnant water in the environment?

- A. Cholera
- B. Typhoid
- C. Tuberculosis
- D. Malaria

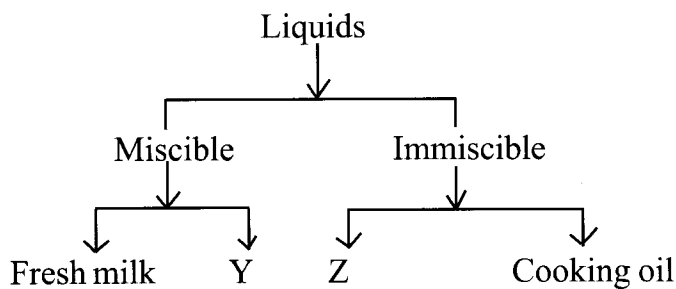
9. Which one of the following weeds has either green or purple leaves?

- A. Pig weed
- B. Mexican marigold
- C. Sodom apple
- D. Black jack

10. Which set of plants below store their food in the same way as cactus?

- A. Sweet potato, cassava, yams
- B. Ginger, sugarcane, irish potato
- C. Onions, carrots, arrow roots
- D. Kales, spinach, cabbage

11. The chart below represents a simple classification of liquids.



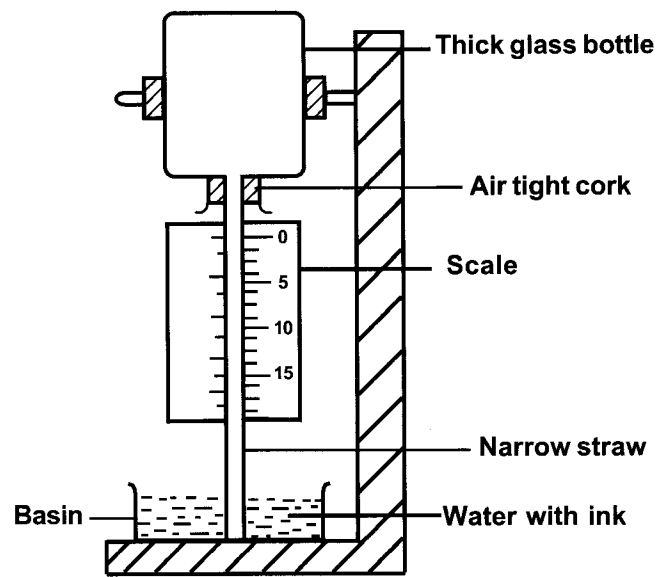
Liquids Y and Z are likely to be

- A. petrol, water
- B. water, methylated spirit
- C. kerosene, engine oil
- D. diesel, methylated spirit

12. Which one of the following groups consists of foods which repair worn out body tissues?

- A. Potatoes, beans, eggs
- B. Ripe bananas, pawpaws, oranges
- C. Peas, ugali, spinach
- D. Locusts, cashewnuts, termites

13. The diagram below shows a weather instrument



When it is placed in a hot sunny weather, the instrument did not work. What mistake was made?

- A. Use of water with ink
- B. Use of a narrow straw
- C. Incorrect labelling of the scale
- D. Use of an empty thick glass bottle

14. Which one of the following methods of separating mixture should one consider size of solid as small and big?

- A. Sieving
- B. Filtering
- C. Winnowing
- D. Use of a magnet

15. Which one of the following pairs of levers has the position of the fulcrum between the load and the effort when in use?

- A. Claw hammer and spade
- B. Wheelbarrow and crowbar
- C. Claw hammer and crowbar
- D. Crowbar and spade

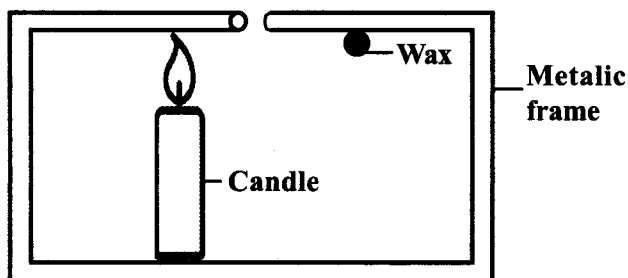
16. Three of the following plants grow in soils lacking nitrogenous nutrients. Which one does not?

- A. Pitcher plant
- B. Morning glory
- C. Sundew
- D. Venus fly trap

17. Which of the following pairs consists of animals with scales?

- A. Snake and newt
- B. Duck and salamander
- C. Crocodile and duck
- D. Toad and fish

18. The experiment below was carried out by pupils at Katuda Primary school.



Which method of heat transfer made the wax to melt respectively?

- A. Conduction and convection
- B. Conduction and radiation
- C. Convection and conduction

D. Convection and radiation

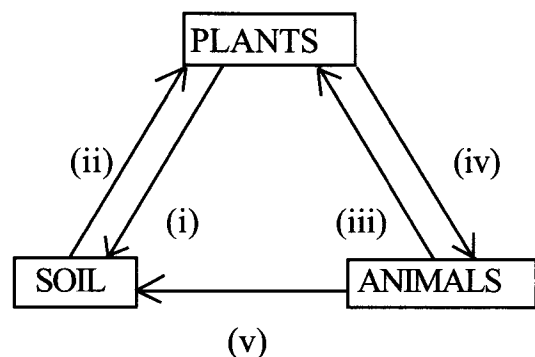
19. A patient had the following signs and symptoms:

- i) Muscle and joint pains
- ii) Skin rashes
- iii) Abdominal pain

The patient was likely to suffer from

- A. malaria
- B. cholera
- C. bilharzia
- D. typhoid

20. The illustration below shows interdependence between plants and animals. The arrow points to the beneficiary



Which arrow shows the use of a by-product of photosynthesis?

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

21. The following animal feeds are mainly fed to dairy cattle to increase production except

- A. sunflower seeds
- B. dairy meal

C. Napier grass

D. Molasses

22. Aquatic ferns have special adaptive features that enable them to survive in their habitat.

Which one is it?

A. Thick cuticles

B. Thin cuticles

C. Reduced number of stomata

D. Silvery hairs

23. In the human digestive system, which part is responsible for peristalsis?

A. Oesophagus

B. Stomach

C. Ileum

D. Colon

24. A spring balance can measure all the following except

A. gravity

B. pressure

C. weight

D. inertia

25. The clouds that are found low in the sky and cover the whole sky also

A. indicate fine weather

B. are rain laden

C. are white in colour

D. have a regular shape

26. Which of the following pairs of plants is correctly matched with the type of root system in the table below?

Tap roots	Fibrous roots
A. Acacia	Carrots
B. Green gram	Coconuts
C. Mango	Groundnuts
D. Grass	Maize

27. Which one of the following does NOT pollute water?

A. Oil spillage from tankers

B. Industrial waste effluents

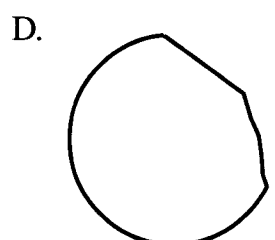
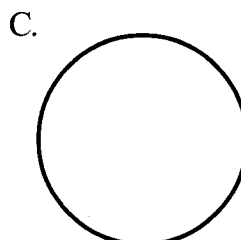
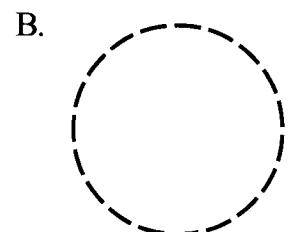
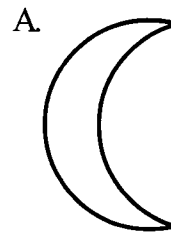
C. Domestic waste

D. Treated sewage water

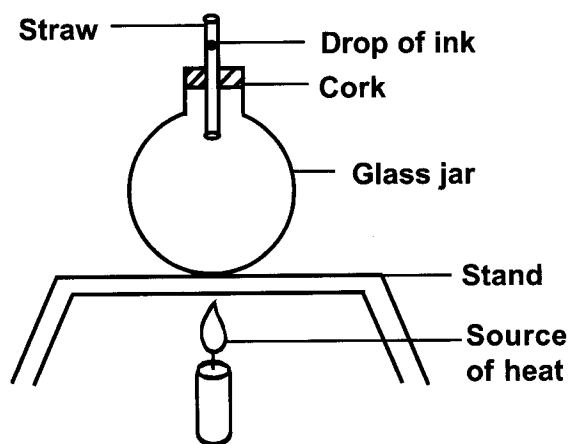
28. Which one of the following pests is correctly matched with the part of the crop which they attack?

Pest	Part attacked
A. Aphids	Roots
B. Stalkborer	Flowers
C. Cutworms	Stems
D. Weevils	Leaves

29. Which of the following phases of the moon is not visible on earth at any given time?



30. Which method of grazing is normally practised in densely populated areas?
- Stall feeding
 - Paddock
 - Strip grazing
 - Herding
31. Large furrows in the soil as a result of erosion can be controlled by
- constructing check dams
 - planting cover crops
 - constructing terraces
 - planting trees
32. Std. 8 pupils from Bidii Primary School did the experiment below



Which one of the following observations did they make after heating the glass jar?

- The drop of ink moved downwards
 - The glass jar broke
 - Gases expand on heating
 - The drop of ink moved upwards
33. Which one of the following consists of a pair of opaque materials?

- Mirror sheet, air
- Mirror, stone
- Plastic, oiled paper
- clear glass, metal

34. Which one of the following activities does NOT apply the principle of refraction of light?
- A coin in a glass of water appearing raised
 - Observing things around corners using a periscope
 - Formation of mirage
 - A ruler in a glass of water appearing broken
35. Which of the following activities will make an aluminium foil to sink in water?
- Crushing the foil into a ball
 - Making holes on the foil
 - Increasing the length of the foil
 - Increasing the amount of water
36. Birds which feed on grains have beaks that are
- strong, short and curved
 - strong, short and cupped
 - long, sharp and pointed
 - strong, short and straight
37. Standard seven pupils were asked by their Science teacher to bring the following items:

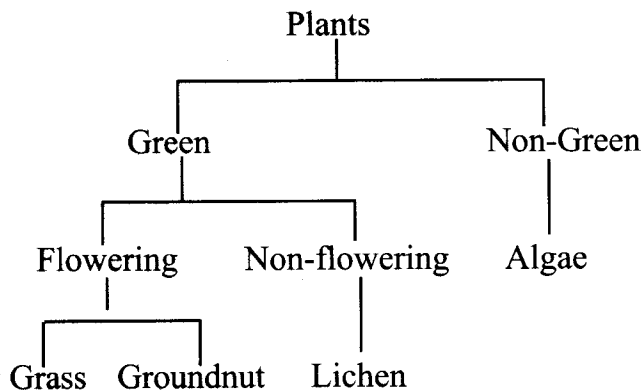
- i) Water
- ii) Soil samples
- iii) Different transparent bottles
- iv) Three biro-pen casings
- v) Stop watch or clock
- vi) Cotton wool

Which property of soil were the pupils likely to investigate?

- A. Soil capillarity
- B. Soil drainage
- C. Water retention
- D. Texture of soil

38. When the volume of the chest cavity increases and pressure reduces, the diaphragm is likely to
- A. form a dome shape
 - B. move upwards
 - C. flatten
 - D. move inwards

39. The chart below shows a simple classification of plants



Which plant is wrongly classified?

- A. Algae
- B. Groundnut

- C. Grass
- D. Lichen

40. Which one of the following is the most appropriate method of controlling weeds in a nursery bed?

- A. Digging them out
- B. Uprooting
- C. Use of herbicides
- D. Slashing

41. A child who looks like an old person and cries a lot is also likely to

- A. have swollen face and cheeks
- B. have brownish and thick hair
- C. develop sores at the corners of the mouth
- D. have visible bones and ribs

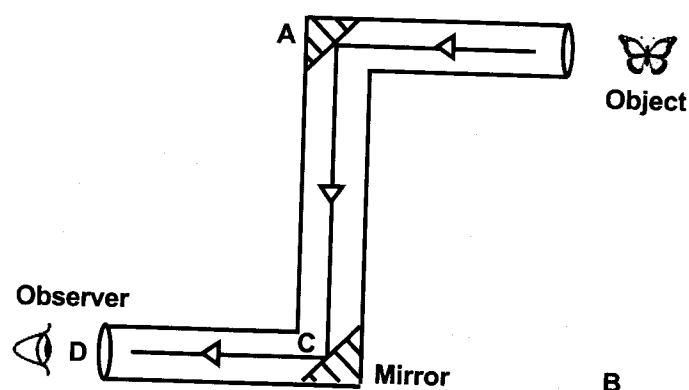
42. Which of the following is NOT a property of water vapour?

- A. It expands most when heated
- B. It occupies space
- C. It has a definite mass
- D. It changes state on heating

43. Which one of the following is a function of the amniotic fluid in foetal development?

- A. Allows the passage of digested food from the mouth to the foetus
- B. Allows the removal of waste products from the foetus to the mother
- C. Prevents the mixing of the foetus and the mother's blood
- D. Acts as a lubricant during birth

44. The diagram below shows a periscope.



Which letter represents the position of the image?

- A. D
- B. C
- C. B
- D. A

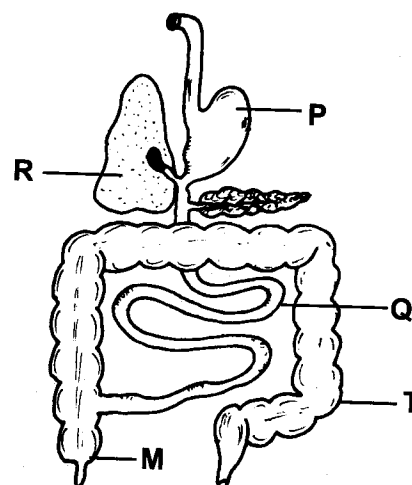
45. Which one of the following colours of the spectrum bends most when refracted?

- A. Red
- B. Green
- C. Indigo
- D. Violet

46. Which one of the following is not an effect of HIV to an individual?

- A. Low living standards
- B. Children become orphans
- C. Low self esteem
- D. A person feels ashamed

47. The diagram below shows a digestive system



Which of the following food nutrients are digested in the region marked Q?

- A. Fats and oils
- B. Carbohydrates
- C. Proteins
- D. Vitamins

48. Curative drugs are also known as

- A. painkillers
- B. vaccines
- C. stimulants
- D. antibiotics

49. Which one of the following groups consists of non-magnetic materials only?

- A. Glass, silver, cellotape
- B. Nail, steelwool, spoon
- C. Scissors, razor blade, office pins
- D. Needle, nail cutter, aluminium

50. Which one of the following is an adaptation of animals to movement by swimming?

- A. Presence of hollow bones
- B. Having strong hind legs
- C. Having a streamlined body
- D. Presence of wings