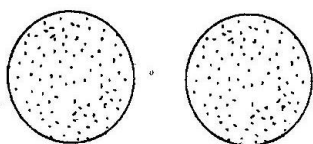


KCPE PREDICTION 2020

SCIENCE

1. Which one of the following substances interferes with the function of the blood component shown below?



- A. Carbon dioxide
B. Tar
C. Nicotine
D. Carbon monoxide
2. Which one of the following pair of drugs causes one to see and hear things that do not really exist when abused?
- A. Bhang and cocaine
B. Heroine and khat
C. Mandrax and cocaine
D. Heroine and bhang
3. The following are control measures against HIV/AIDS. Which one is **NOT**?
- A. Abstinence among the unmarried
B. Creating public awareness
C. Campaign through various media
D. Mass education
4. Which one of the following methods of controlling weeds is **BEST** for a plantation?
- A. Digging them out
B. Uprooting
C. Burning
D. Applying chemicals

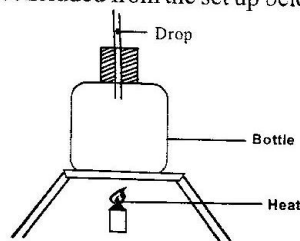
5. Plants depend on other plants for all the following **EXCEPT**;

A. support
B. shelter
C. shade
D. habitat

6. Wanyonyi has a variety of crops on his farm, one morning as he walked around his farm he noticed that his crops had been affected by pests. Which one of the following is **LEAST LIKELY** to have caused the damage?

A. Stalk borer
B. Aphids
C. Rats
D. Army worms

7. Which one of the following can **BEST** be concluded from the set up below?



- A. Solids expands on heating
B. Gases are poor conductor
C. Matter expands on heating
D. Liquid expands on heating
8. Which one of the following is the second last stage in the process of giving birth?
- A. Coming out of the after births
B. Cutting of the umbilical cord
C. Bursting of the amnion sac
D. Labour pains

9. The following are adaptations of plants;

(i) *Folding of leaves*

(ii) *Thin cuticle*

(iii) *Narrow leaves*

(iv) *Flexible stems*

(v) *Shiny hairs*

(vi) *Waxy leaves*

Which of the above adaptations are for plants that grow in dry areas?

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

10. Which one of the following is a way of using water sparingly?

- A. Drip irrigation
- B. Harvesting water
- C. Recycling water
- D. Using water that has been used to wash clothes to mop the house

11. The following are signs and symptoms of a certain disease;

(i) *Pain in joints*

(ii) *Fever*

(iii) *Muscle aches*

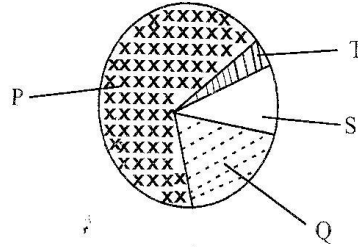
(iv) *Severe headache*

(v) *Abdominal pains*

The above disease can be **BEST** prevented through

- A. draining stagnant water
- B. living in a well ventilated room
- C. drinking boiled water
- D. wearing protective cloths when handling stagnant water

12. Which of the following are uses of **P** and **T** respectively?



- A. Making proteins and electric bulb
- B. Germination and making plants food
- C. Extinguishing fire and breathing
- D. Making proteins and food preservation

13. Which one of the following consists of magnetic materials only?

- A. Tin, aluminium, copper
- B. Iron, steel, cobalt
- C. Tin, iron, copper
- D. Aluminium, steel, cobalt

14. Class 6 pupils of Romorot primary, spinned a coloured chart that had the following colours, red, blue, yellow, green, purple, orange and indigo. Which colour did they see?

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

15. Which one of the following is a precaution against lighting?

- A. Avoid leaning against the wall
- B. Do not handle appliances with wet hands
- C. Avoid overloading sockets
- D. Avoid red clothing

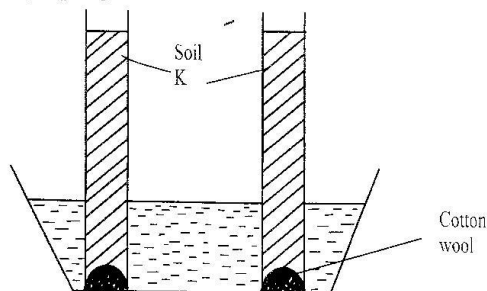
16. Which one of the following is **CORRECT**?

- A. Antipolio vaccine is given three times
- B. Measles and TB are immunised at birth
- C. Yellow fever is immunised at the age of 14 weeks
- D. First dose of whooping cough is given at one and half month

17. Which one of the following sexually transmitted infections is caused by a virus?

- A. Syphilis
- B. Chancroid
- C. Gonorrhoea
- D. Genital herpes

18. The set up below used to investigate a certain property of soil.



Pupils could not make the correct conclusion because

- A. they placed tubes in the same trough
- B. they used same type of soil
- C. they used same amount of soil
- D. they used same size of tubes

19. During a demonstration to investigate a certain property of matter, soil was put in a small container and then dipped in water in a basin.

What was the conclusion made? There is

- A. water in soil
- B. minerals in soil
- C. air in water
- D. air in soil

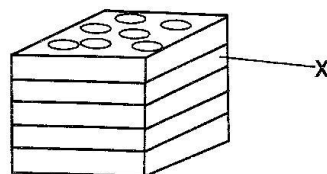
20. Which one of the following is both energy giving and body building?

- A. Chicken
- B. Avocado
- C. Groundnuts
- D. Green grams

21. Which one of the following is **CORRECTLY** matched?

- | | |
|----------------|---------------|
| A. Marasmus | Visible bones |
| B. Kwashiorkor | Wrinkled face |
| C. Rickets | Crying alot |
| D. Anaemia | Fragile bones |

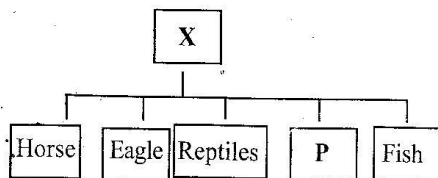
22. The diagram below represents an arrangement of materials in a compost heap.



Which one of the following is function of the material in the layer marked X?

- A. Adding the bulkness
- B. Additional nutrients
- C. Provide food for bacteria
- D. Introduce bacteria

23. The flow chat below shows classifications of animals



Which one of the following is **CORRECT** about **X** and **P**?

- | X | P |
|--------------------|-----------------------|
| A. No back bones | Fertilised |
| C. With back bones | Lay eggs |
| C. With back bones | Warm blooded |
| D. With back bones | Lay unfertilized eggs |

24. Which one of the following animals belong to the same group as a weevil?

- A. Crab
- B. Mite
- C. Spider
- D. Termites

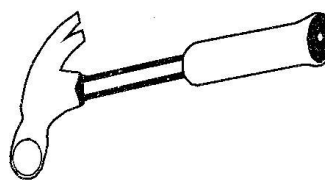
25. Which one of the following parasites attack the small intestines of sheep and goats only?

- A. Hookworms
- B. Tapeworms
- C. Roundworms
- D. Lungworms

26. Which one of the following is **NOT** a way of reducing friction?

- A. Smoothening surface
- B. Using ball bearing
- C. Increasing weight
- D. Use of lubricant

27. Which one of the following is **NOT** the function of the tool shown below?



- A. Breaking things
- B. Collecting trash
- C. Driving in nails
- D. Removing nails

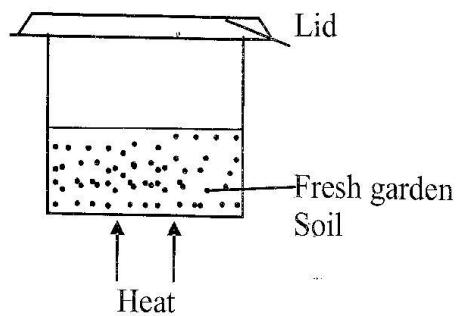
28. Which one of the following is a major non living component of soil?

- A. Water
- B. Light
- C. Plants
- D. Animals

29. Which one of the following livestock parasite control measures can be applied for both ticks and tapeworms?

- A. Spaying
- B. Dipping
- C. Rotational grazing
- D. Deworming

30. The pupil of Kilimambogo primary set up an experiment as shown. Which observation did they make?



- A. Water in soil
B. Air in soil
C. Soil in water
D. Water droplets on the lid
31. Which one of the following weeds is difficult to control by uprooting?
- A. Blackjack
B. Oxalis
C. Wandering jew
D. Pigweed
32. The following substances are dissolved in plasma. Which one is **NOT**?
- A. Oxygen
B. Urea
C. Carbon dioxide
D. Salts

33. The property of light in the working of a lamp in a room is that light
- A. travels in a straight line
B. travels in corners
C. spreads in all directions
D. bends as it passes from one media to another

34. Large furrows in the soil can best be controlled by
- A. mulching
B. cover crops
C. contour ploughing
D. porous dams

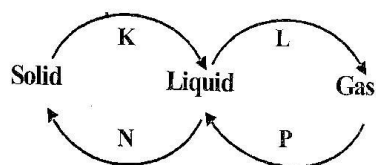
35. Which one of the following is a source of current electricity?
- A. Bulb
B. Batteries
C. Torch
D. Dam

36. The following features are found in the dermis. Which one is **NOT**?
- A. Pores
B. Sweat glands
C. Blood capillaries
D. Oil glands

37. In order to make a certain weather instrument, a pupil assembled the following material, glass bottle, ink, biopen tube, a nail, manila paper and water. Which one of the following instruments was the pupil **LIKELY** to make?

- A. Windvane
- B. Liquid thermometer
- C. Raingauge
- D. Windsock

38. The diagram below shows the change of state of matter



Which of the processes above occurs as a result of losing heat to the surrounding?

- A. K, H
- B. L, N
- C. N, P
- D. P, K

39. During breathing in

- A. the diaphragm flatten
- B. the ribs move downwards
- C. the diaphragm moves upwards
- D. the lungs shrink

40. The following are changes during adolescence;

- (i) *Broadening of the hips*
- (ii) *Widening of the shoulders*
- (iii) *Rapid increase in weight*
- (iv) *Wet dreams*
- (v) *Pimples may appear*

Which of the above is for both boys and girls?

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

41. The following are ways of proper use of medicine. Which one is **NOT**?

- A. Check the expiry date
- B. Complete the dose
- C. Store in lockable cupboards
- D. No sharing of medicine

42. Which one of the following pairs of drugs contain a stimulant and a depressant respectively?

- A. Khat and tobacco
- B. Cocaine and mandrax
- C. Cobble glue and cocaine
- D. Bhang and mandrax

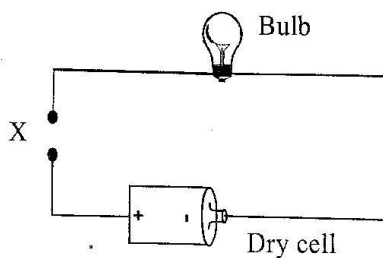
43. The jar used for measuring rainfall should be

- A. narrow
- B. wide
- C. short
- D. long

44. Which one of the following is a use of water for recreation?

- A. Fishing
- B. Making fountains
- C. Cooking
- D. Washing clothes

45. The diagram below represents a simple circuit



Which of the following materials when put at X will make the bulb light?

- A. Graphite
- B. Rubber
- C. Hair
- D. Stick

46. Which one of the following is **NOT** a reason for lighting a house?

- A. Reading comfortably
- B. Scare pests away
- C. Seeing clearly
- D. Warming the house

47. A flower with long feathery stigma and loosely attached anthers is also **LIKELY** to

- A. have brightly coloured petals
- B. have sweet scent
- C. produce many pollen grains
- D. produce nectar

48. Which of the following methods of food preservation is both modern and traditional?

- A. Canning
- B. Low temperature
- C. Use of salt
- D. Smoking

49. The toothless gap on the lower jaw of a herbivore is for

- A. turning plant materials in the mouth for proper chewing
- B. holding the food materials
- C. allowing space of more food
- D. preventing the animals from biting their tongue

50. Corrugated iron sheets can be damaged when they come in contact with

- A. oil spills
- B. industrial gases
- C. herbicides
- D. dust