



FRONTRUNNER EXAM

STANDARD SIX 2021

SCIENCE

6

Time: 2 Hrs

READ THESE INSTRUCTIONS CAREFULLY

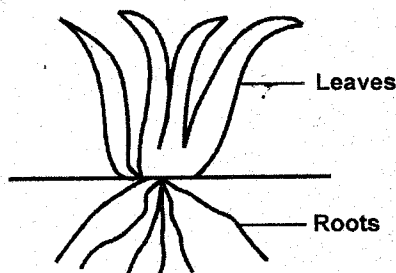
1. You have been given this question paper and a separate answer sheet. The question paper contains 50 questions.
2. Do any necessary rough work in this paper.
3. When you have chosen your answer, mark it on the ANSWER SHEET, not in this question paper.

1. The two types of teeth in the mouth used for grinding and chewing food are
A. Incisors and canines
B. Premolars and molars
C. Canines and premolars
D. Incisors and molars

2. Jane saw some green plants growing on damp walls, stones and tree trunks during rainy season. They were **LIKELY** to be ____
A. Mosses
B. Algae
C. Ferns
D. Moulds

3. Which pair of plants below are useful and non-green?
A. Yeast and dandruff
B. Ringworm and athlete's foot
C. Dandruff and ringworm
D. Yeast and penicillin

4. The root system drawn **CANNOT** be found in



- | | |
|------------|----------|
| A. Maize | B. Onion |
| C. Coconut | D. Beans |

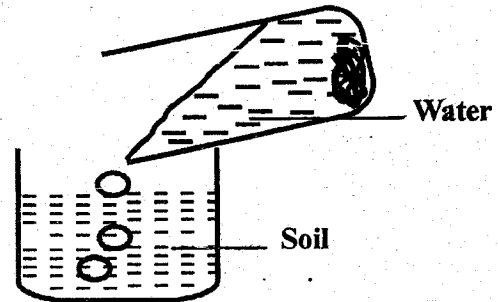
5. Nelson was taken to a hospital as he had the following signs and symptoms

- (i) Violent diarrhoea with mucus
- (ii) Severe abdominal pains
- (iii) Vomiting

He was **LIKELY** suffering from ____

- | | |
|------------|--------------|
| A. Typhoid | B. Bilharzia |
| C. Cholera | D. Malaria |

- 6.



As water was poured in a container that had soil as shown, bubbles were seen coming out. That confirmed that soil contains?

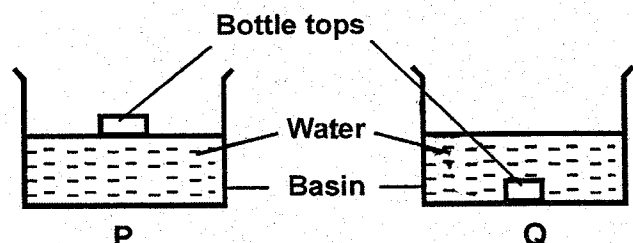
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|----------|----------------------|
| A. Water | B. Air |
| C. Humus | D. Mineral particles |

7. Which statement is not true about foods and nutrition?
A. We should avoid eating sweet sugary foods
B. We are free to lick our fingers as we eat
C. It is important to have good eating habits
D. Each meal we eat should be a balanced diet

8. A class was asked to name artificial sources of light. Which pupil gave a wrong response?

- | | |
|------------|-------------|
| A. Richard | Sun |
| B. Peter | lamp |
| C. Pauline | candle |
| D. Mary | Electricity |

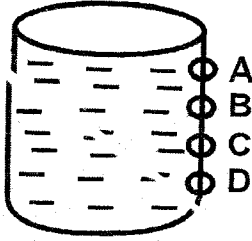
- 9.



During an experiment, a bottle top was put in a basin of water P as shown. Another bottle top was crushed and put in basin Q. It sank because of a difference in

- | | | | |
|-------------|---------|----------|-----------|
| A. Material | B. Size | C. Shape | D. Weight |
|-------------|---------|----------|-----------|

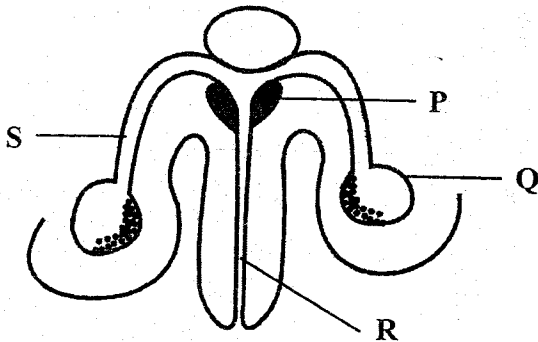
10. The diagram is of a tank of water installed to serve Ugunja Town. What is the best position to connect an inlet pipe?



11. The tool drawn cannot be maintained by



- A. Painting the blade B. Sharpening
C. Repairing broken handle D. Oiling the blade
12. Give two examples of protective foods?
A. Kale, ripe banana B. Watermelon, maize
C. Oranges, termites D. Sardines, termites
13. Clay soil that has been burnt for a long time is **LIKELY** to be
A. Yellow B. Blue C. White D. Red
14. The following are poor methods of farming **EXCEPT**
A. Overgrazing B. Deforestation
C. Burning bushes D. Cultivating across the slope
15. Give one method of preservation which is purely modern
A. Salting B. Drying
C. Canning D. Using low temperature
16. The diagram shows the male reproductive system.



Which part produces semen?

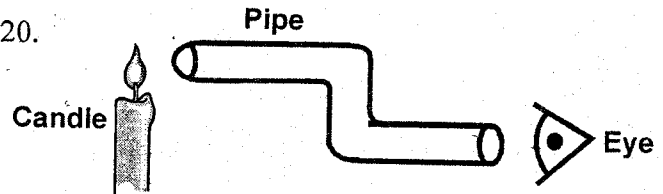
- A. Q B. R C. P D. S

17. A certain disease attacks the nervous system and causes paralysis of some parts of the body such as arms and legs. What is the best time to give its vaccine?
A. Two years
B. One year
C. Nine months
D. Birth, six weeks, ten weeks, fourteen weeks

18. Which one of the following is **not** an effect of HIV infection on the nation?
A. Provision of good health facilities
B. Low agricultural production
C. Increase in the number of school dropouts
D. Poor economy

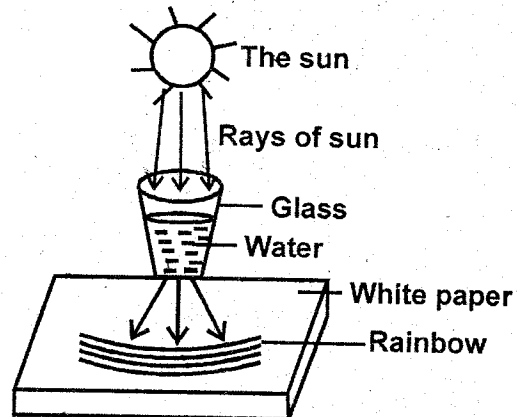
19. Nicholas threw a ball upward and noticed that it turned and fell down due to some force called
A. Inertia B. Gravity
C. Magnetic D. Pressure

20.



- Kevin observed a burning candle through a pipe as shown. He could not see light because ____
A. Light travels in all directions
B. Light is refraction
C. Light is reflected
D. Light travels in a straight line

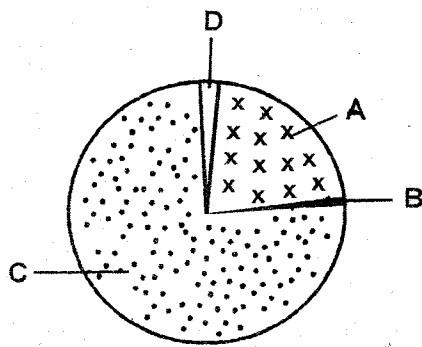
21. The set up was meant to demonstrate formation of a rainbow due to



- A. Reflection of light B. Refraction of light
C. Bending of light D. Dispersion of light

22. Materials that light cannot pass through are said to be
 A. Translucent B. Opaque
 C. Transparent D. Reflectors

23.



Which part of air is used by leguminous plants to make proteins?

24. An animal feed was prepared as follows:

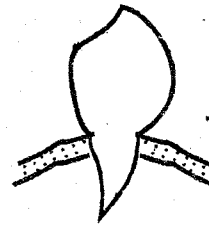
- (i) Harvesting was done during rains
- (ii) It was dried to remove moisture
- (iii) It was tied in bales to be used later.

The feed was **LIKELY** to be

- A. Hay B. Silage
 - C. Fodder crop D. Concentrate
25. James has a farm where he keeps cattle. The animals are enclosed in a permanent structure where feeds and water are provided. The type of grazing he practices is
- A. Tethering B. Zero grazing
 - C. Herding D. Paddocking
26. Which one of the following is not a reason why animals should be given balanced diet?
- A. Proper growth
 - B. Maximum production of milk and meat
 - C. Proper production of blood when slaughtered
 - D. Protection against diseases
27. Which one of the following ways cannot prevent spreading of bilharzia?
- A. Wear gumboots when working in water
 - B. Kill water snails using chemicals
 - C. Drain stagnant water
 - D. Pass stool and urine in the bush
28. Diseases transmitted through water are called
- A. Water diseases
 - B. Water borne diseases
 - C. Deficiency diseases
 - D. Communicable diseases

29. Landslide is a form of
- A. Sheet erosion B. Rill erosion
 - C. Splash erosion D. Gully erosion

30. The type of tooth drawn is called ____



- A. Incisor B. Premolar
- C. Canine D. Molar

31. Which one of the following is not a sign of gum disease?

- A. bad breath
- B. Shedding of milk teeth
- C. Bleeding gums
- D. Red and swollen gums

32. Which one of the following food crops is **NOT** a cereal?

- A. Maize B. Beans
- C. Wheat D. Millet

33. A beverage is a liquid for drinking. Which one cannot be planted as a beverage crop?

- A. Coffee B. Tea
- C. Cocoa D. Coconut

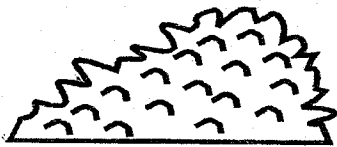
34. All the following are disadvantages of weeds **EXCEPT**?

- A. Provide food for crops
- B. Compete with crops for food
- C. May have pests that attack crops
- D. May spoil farm produce

35. The best way of removing weeds is by doing all the following **EXCEPT**?

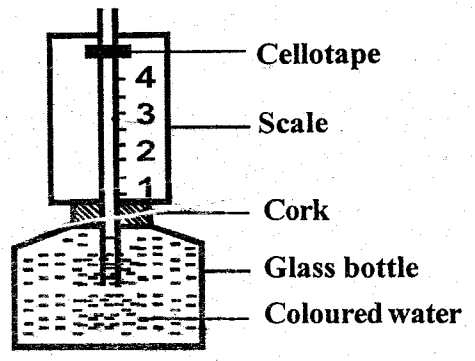
- A. Digging them out
- B. Slashing
- C. Using chemicals
- D. Burying them in the soil

36. A child was found to be having the following signs and symptoms
 (i) Bow-like- legs
 (ii) Knocking knees
 (iii) Bones that broke easily
 The child is **MOST LIKELY** to be suffering from?
 A. Marasmus B. Kwashiorkor
 C. Rickets D. Anaemia
37. The type of cloud drawn is common in fine weather. It is **LIKELY** to be



- A. Nimbus B. Cumulus
 C. Stratus D. None of the above
38. Which one of the following is **NOT** correct about the moon?
 A. It is commonly seen at night
 B. It is sometimes seen during the day
 C. It causes lightning
 D. It appears in different shapes
39. Which animal is not correctly matched with the way of movement?
- | Animal | Movement |
|------------|----------|
| A. Bird | Flies |
| B. Frog | Leaps |
| C. Snake | Gliding |
| D. Ostrich | Running |
40. A lizard basks on a cold day in the sun. This action supports which characteristic of living things?
 A. Reacting to changes in the environment
 B. Feeding
 C. Removing waste
 D. Moving from one place to another
41. A young one of a sheep is called
 A. Kitten B. Kid C. Calf D. lamb
42. One of the following does **NOT** give a recreational use of water
 A. Swimming B. Washing the body
 C. Boat racing D. Surfing
43. The organ that does **NOT** help to digest food in the mouth is
 A. Teeth B. Tongue
 C. Gullet D. Salivary glands
44. The amount of medicine to be taken at a time by a patient is known as
 A. Dosage B. Prescription
 C. Medicinal quantity D. Overdose

45. Which one of the following does not give a safe way of handling chemicals at home?
 A. Chemicals be stored away from children
 B. Chemicals be stored away from foods
 C. All chemical containers be well labeled
 D. Detergents be kept within the reach of children
46. One of the following cannot help in the spreading of HIV/AIDS
 A. Blood transfusion
 B. Mosquito and other insect bites
 C. Sexual intercourse
 D. Sharing skin-piercing tools
47. The above weather instrument has coloured water used



- A. to make it easy for reading
 B. To expand when heated
 C. To decorate the instrument
 D. To prevent air from entering
48. Which one of the following animal is not a mammal?
 A. Shark B. Whale
 C. Spiny ant-eater D. Duck-billed platypus
49. A child has the following signs and symptoms
 (i) Brownish and thin hair
 (ii) Sores at the corners of the mouth
 (iii) Swollen stomach, arms and feet
 (iv) Very weak body
 The child was likely suffering from
 A. Rickets B. marasmus
 C. Kwashiorkor D. Anaemia
- 50.
-
- Papers
- Flames
- Firewood
- During a Science practical lesson, pieces of paper were dropped as shown on fire. It was observed that they did not reach the fire because of ____
 A. Conduction B. Convection
 C. Radiation D. None of the above