

SIGNAL EXAMS 2022
SCIENCE

Time: 1hr 40min

1. During pregnancy, the amniotic fluid
- A. protects the foetus from germs
 - B. protects the foetus from external injuries
 - C. facilitates exchange of food nutrients from the mother to the foetus
 - D. facilitates exchange of waste products from the foetus to the mother.

2. Absorption of water and mineral salts in the alimentary canal takes place in the
- A. stomach
 - B. rectum
 - C. large intestine
 - D. small intestines.

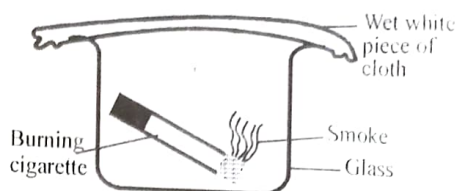
3. The liquid part of blood is responsible for all the following functions **except**
- A. transportation of oxygen
 - B. transportation of digested food
 - C. transportation of waste to excretory organs
 - D. helps in distribution of heat in the body.

4. Which one of the following physical changes during adolescence is **correctly matched** to occurrence in boys and girls?

Boys	Girls
A. Voice breaks	Chest broadens
B. Wet dreams	Menstrual flow
C. Growth of beards	Voice breaks
D. Pimples may appear on the face	Production of mature sperms.

5. The **best** method of controlling the spread of human intestinal worms is
- A. regular deworming
 - B. treating infected persons
 - C. observing proper hygiene and sanitation
 - D. proper cooking of foods.

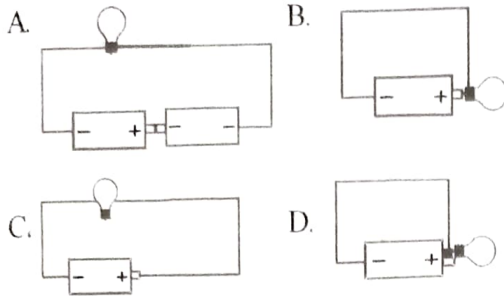
6. A class seven pupil set up an experiment as shown below.



After sometime, they noted that a dark-brown substance had formed on the damp cloth. This dark brown substance is **likely** to be

- A. water
 - B. nicotine
 - C. carbon monoxide
 - D. tar.
7. Chicken and frogs have one characteristic in common. They both
- A. breath through lungs
 - B. have varied body temperature
 - C. have scales
 - D. lay fertilized eggs.
8. Below are signs and symptoms of a certain sexually transmitted infection:
- (i) Yellowish discharge from penis.
 - (ii) Swelling of testicles.
 - (iii) Pain when passing urine.
 - (iv) Infertility if not treated.
- Which sexually transmitted infection has the above signs and symptoms?
- A. Gonorrhoea
 - B. Syphilis
 - C. Chancroid
 - D. HIV and AIDS
9. The following statements describe natural manures **except** one. Which one? They
- A. remain in the soil for long
 - B. do not pollute the soil
 - C. bind the soil particles together
 - D. contain specific nutrients.

10. In which one of the following circuit arrangements will the bulb light?



11. Wax will float on water even after changing its shape due to

- A. material B. size
C. weight D. shape.

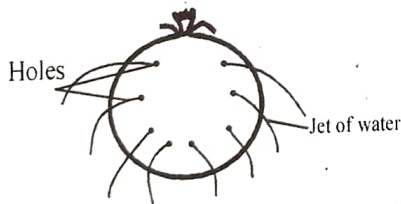
12. A mixture of salt solution, sand and iron fillings can **best** be separated by

- A. filtering → decanting → evaporation
B. winnowing → use of magnet → evaporation
C. use of magnet → filtering → evaporation
D. use of magnet → picking → evaporation.

13. In a food chain, mice belong to a group of feeders called

- A. producers
B. primary consumers
C. tertiary consumers
D. secondary consumers

14. The set up below demonstrates a certain aspect. It shows



- A. pressure in liquids increases with depth
B. pressure in liquids is equal at the same level
C. pressure in liquids does not increase
D. liquids exert pressure in all directions.

15. Which one of the following is **not** a cash crop?

- A. Flax B. Cotton
C. Wheat D. Sisal

16. Which one of the following is **not** true about roughages?

- A. They help in constipation.
B. They help in the movement of food.
C. Are not digested in our body.
D. Have no nutritive value.

17. Class five pupils filled a transparent bottle with garden soil and water. It was shaken and left to settle. Which two components of soil were they likely to observe during the experiment?

- A. Water and humus
B. Organic matter and mineral particles
C. Water and air
D. Air and organic matter.

18. Which of the following pairs of heavenly bodies can be observed in the sky during the day and night?

- A. Stars and clouds. B. Sun and moon.
C. Moon and stars. D. Clouds and moon.

19. The following are non-useful plants **except**

- A. mould B. penicillin
C. ringworm D. Toad stool.

20. Which one of the following is **not** a method of controlling livestock parasites?

- A. Shearing B. Spraying
C. Deworming D. Dipping.

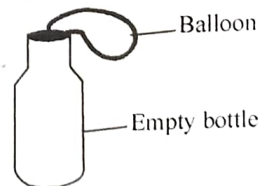
21. Earthworms are helpful to plants mainly because they assist to

- A. increase air circulation in the soil
B. kill harmful insects in the soil
C. provide food to animals living in the soil
D. make more nutrients for the plants.

22. The following are effects of HIV and AIDS to an individual **except** one. Which one?

- A. Low self esteem.
B. Stigmatization.
C. Sadness in the family.
D. Low standards of living.

23. Which of the following activities would inflate the balloon below?



- A. Fill the bottle with water.
B. Put the bottle in hot water.
C. Fill the balloon with water.
D. Put the balloon in cold water.

24. The following are ways of educating the masses on control measures for HIV and AIDS **except** through

- A. seminars B. use of billboards
C. youth rallies D. workshops.

25. Which one of the following is **not** a method of controlling mosquitoes?
- Clearing bushes.
 - Draining stagnant water.
 - Sleeping under mosquito nets.
 - Spraying with insecticides.

26. Which of the following is **true** about the weed below?



- It has pink flowers.
 - It has unpleasant smell.
 - It grows along the ground.
 - It is poisonous.
27. Which of the following foods consist of a balanced diet?
- Ugali, egg, orange.
 - Rice, bread, fruit juice.
 - Bread, chicken, water.
 - Meat, eggs, ugali.
28. All liquids have the following characteristics **except**
- they can flow
 - have fixed volume
 - take the shape of container they are in
 - expands the most when heated.
29. Which one of the following is **not** a way of conserving water?
- Use of drip irrigation.
 - Closing taps when not in use.
 - Repairing leaking pipes and tanks.
 - Use of furrow irrigation method.
30. The part marked **P** in the maize seed shown below is used for



- storing water for the seed
 - storing food for the embryo
 - making food for the seedling
 - absorbing water for the embryo.
31. Which of the following mixtures cannot be separated by use of a magnet?
- Steel and copper.
 - Aluminium and cobalt.
 - Iron and steel.
 - Sugar and nickel.

32. Which one of the following shows the correct passage of urine from the kidneys to the outside of the body?

- Ureter - bladder - urethra.
- Bladder - ureter - urethra.
- Urethra - bladder - ureter.
- Ureter - urethra - penis.

33. The following are measured using spring balances **except**

- | | |
|-------------|-----------|
| A. friction | B. mass |
| C. weight | D. force. |

34. The second, fourth and seventh planets in the solar system **respectively** are

- Venus, Earth and Neptune
- Earth, Jupiter and Uranus
- Venus, Mars and Saturn
- Venus, Mars and Uranus.

35. The following plants have the same type of root system **except**

- | | |
|------------|-----------|
| A. acacia | B. mango |
| C. coconut | D. carrot |

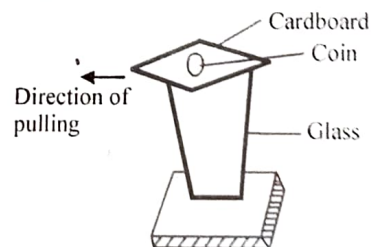
36. Which one of the following levers has the effort between fulcrum and the load?

- | | |
|----------------|----------------|
| A. Spade | B. Wheelbarrow |
| C. Claw hammer | D. Cowbar. |

37. Which one of the following is an industrial use of water?

- | | |
|------------|----------------------|
| A. Bathing | B. Fishing |
| C. Surfing | D. Making fountains. |

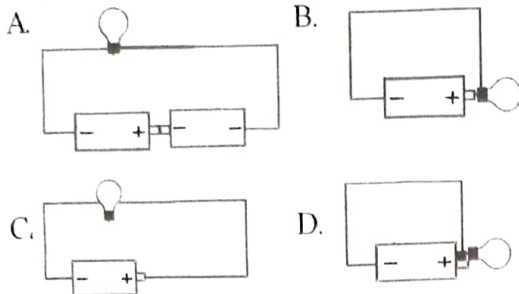
38. Class six pupils pulled a cardboard with a coin as shown below.



After flicking the cardboard, the coin

- remained on the cardboard
- fell into the glass
- moved with the cardboard
- fell behind the glass.

10. In which one of the following circuit arrangements will the bulb light?



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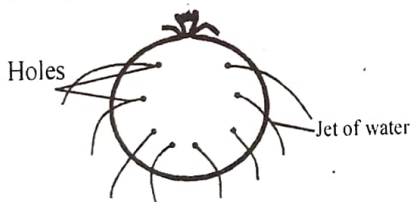
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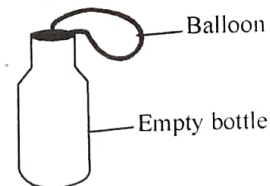
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