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Previous Year Paper

Science - 2016



Multiple Choice Questions

1. Select from the following a group of diseases caused by bacteria

- A. Malaria, Polio and Typhoid
- B. Chickenpox, Meningitis and Tuberculosis
- C. Tuberculosis, Pneumonia and Typhoid
- D. Chickenpox, Influenza and Polio

Answer

2. Consider the following Column A and Column B in which the names of micro-organisms are given in Column A and the groups to which they belong are given in Column B

Column A

- 1. Aspergillus
- 2. Lactobacillus
- 3. Paramecium
- 4. Spirogyra

Column B

- 1. Algae
- 2. Bacteria
- 3. Fungi
- 4. Protozoa
- 5. Virus

The correct match of the items of Column A with that of Column B is

- A. A: III
B: II
C: IV
D: I
- B. A: V
B: III
C: II
D: IV
- C. A: III
B: II
C: IV
D: V

B: III
C: IV
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D: I

Answer

3. Which of the following statements are true about veins in the human circulatory system?

1. All veins carry carbon dioxide-rich blood.
2. Veins have thin walls.
3. Veins carry blood from different organs to the heart.

- A. B and C
- B. A and C
- C. All of these
- D. A and B

Answer

4. Cellulose-rich food substances (i.e., roughages) are considered an essential component of a balanced diet of human beings. Which one of the following is the correct statement about cellulose?

- A. Human beings do not have cellulose-digesting enzymes
- B. Cellulose is a type of carbohydrate, which gets absorbed in the human blood and gives energy
- C. Cellulose breaks down easily into smaller components which are egested as roughages
- D. The cellulose-digesting bacteria present in human beings convert cellulose into fibres

Answer

5. The joint between the head and the upper jaw is an example of

- A. pelvic joint
- B. fixed joint
- C. ball and socket joint
- D. hinged joint

Answer

6. Identify the correct statement(s).

1. The freshwater stored in-ground is less than that present in the rivers and lakes of the world.
2. Water shortage is a problem faced by people only in rural areas.
3. Water from rivers is the only source for irrigation in the fields.
4. Rain is the ultimate source of freshwater.

- A. A and B
- B. A, B and C

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D. A and C

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7. The assessment in science should focus on
- getting accurate results while conducting the experiments
 - the ability to make neat and clear diagrams
 - the understanding of concepts and processes
 - precise definitions and correct answers

Answer

8. Which of the following makes) good open-ended question(s)?
- What difficulties would we face if our bodies did not have muscles in them?
 - What is the difference between the stem of a rose plant, mango tree, and tulsi?
 - Snake and snail have very different styles of movement. Why is it so?
 - Observe various roots and write their features.

Answer

9. Read the following which appears in the Class VIII NCERT textbook.

Nylon appears like silk. It is strong and flexible. These endearing qualities of nylon created a public sensation, or nylon mania when it was introduced in 1939. Women's stockings made from this new fiber were in great demand. But, unfortunately, most of the nylon productions had to be diverted to making parachutes during the Second World War (1939-1945). After the War, when the production of stockings resumed, supply did not match the demand. There was a huge black market for this product. Women had to wait for hours in queues to get a pair. Often there were 'nylon riots'.

What are the significances of including the above in a science textbook?

- To develop a historical perspective in science and the development of ideas.
- To develop an appreciation of how new inventions create new demands.
- To develop a holistic understanding of science.
- Including such anecdotes makes science textbook light and easy.

- B and C
- A and D
- A, B and C
- A and C

Answer

10. Sometimes the students have alternative conceptions related to various science concepts. What should the science teacher do?
- Ignore their ideas
 - Help the students revisit their ideas through various activities
 - Scold the students for having non scientific ideas
 - Tell the students that their ideas are wrong and teach them the correct concept

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11. Which of the following statements indicate(s) a good science classroom?

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1. The learners devise their own experiments and record their observations.

2. The learners observe the demonstration by the teacher and write its steps.

3. The learners are free to ask many questions.

4. The teacher, along with the textbook, uses multiple resources to teach.

A. Only B

B. B and D

C. A, C and D

D. A and C

Answer

12. Somia usually takes her Class VII students on a field trip. Which of the following could be the objective(s)?

1. It provides concrete experiences for students.

2. She can give them assignments and projects for formative assessment.

3. It enhances the process skills of students.

4. It saves her teaching time

A. Only A

B. Only D

C. B and C

D. A, B and C

Answer

13. Which one of the following assessment strategies is most appropriate to assess the experimental skills of students in a science classroom?

A. Checklist

B. Concept mapping

C. Paper-pencil test

D. Practical record

Answer

14. "Open a water tap. Adjust the flow so that it forms a thin stream. Charge a refill. Bring it near the water stream. Observe what happens. Write a short report on the activity."

The skill (s) developed in the students through this activity is/are

A. observation, experimentation and creativity

B. Only observation

C. Only experimentation

D. observation, experimentation and communication

Answer

15. Identify the incorrect statement about the nature of science.

At the same time, a hypothesis or a theory, to be acceptable, must be verified by relevant observations and/or experiments. Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

- B. Science is considered as value-neutral and objective, and the laws of science are viewed as fixed
- C. The methodology of science and its demarcation from other fields continue to be a matter of philosophical debate
- D. Even the most established and universal laws of science are always regarded as provisional, subject to modification in the light of new observations, experiments and analyses

Answer

16. Which of the following strategies are most appropriate for a teacher to teach the topic 'Save Energy'?
- 1. Ask students to write slogans on saving energy.
 - 2. Write at least five ways to save energy.
 - 3. Make a model/project to depict energy saving.
 - 4. Encourage students to save energy in various ways in their lives.
- A. A, B and D
 - B. A, C and D
 - C. B, C and D
 - D. A, B and C

Answer

17. There are two planets in our solar system whose periods of revolution around the Sun are less than those of our Earth, but their periods of rotation are more as compared to those of the Earth. These planets are
- A. Mars and Jupiter
 - B. Mercury and Saturn
 - C. Mercury and Venus
 - D. Uranus and Neptune

Answer

18. The melting points (in °C) of Sulphur (S), Aluminium (Al), and Iron (Fe) are 113, 666 and 1535, respectively. Which one of the following is correct?
- A. Only Fe is solid at 200°C
 - B. Al and Fe are solids at 200°C
 - C. Fe, S and Al are solids at 200°C
 - D. Only S is solid at 200°C

Answer

19. An electric circuit is set up in such a way that the positive terminal of a battery V is connected to a bulb B₁ which is connected to a resistor R which is connected to bulb B₂. B₂ is finally connected to the negative terminal of the battery. Like. Share. Bookmark. Download. Make Notes. Print - Your Favourite Questions. Join www.zigya.com

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A. B_2 will become dimmer but the brightness of B_1 will remain unchanged

B. Both B_1 and B_2 will remain unchanged

C. Both B_1 and B_2 will become dimmer

D. B_1 will become dimmer but brightness of B_2 will remain unchanged

Answer

20. Read the given statements and select the correct option.

1. The range of clinical thermometer is from 35°C to 42°C

2. The range of laboratory thermometer is usually from 10°C to 110°C .

A. Both Statements A and B are false

B. Statement A is correct but Statement B is false

C. Statement B is correct but Statement A is false

D. Both Statements A and B are correct

Answer

21. Which one of the following places in India is most likely to be affected by cyclones?

A. Udaipur

B. Badrinath

C. Puri

D. Amritsar

Answer

22. The air near a heat source gets hot and rises. The air from the sides comes in to take its place.

This is the way in which the air gets heated by oil heaters. What is this process called?

A. Convection

B. Radiation

C. Diffusion

D. Conduction

Answer

23. A book is lying at rest on the surface of a table. Which one of the following statements is true about the force (s) acting on it?

A. There is a pair of balanced forces acting on it

B. Only gravitational force is acting on it

C. Only frictional force is acting on it

D. There is no force acting on it

Answer

24. Read the given statements and select the correct option.

1. The husk is separated from heavier seeds of grain by winnowing.

2. The difference in the size of particles in a mixture is utilised to separate them by the

process of sieving and filtration. Like, Share, Bookmark, Download, Make Notes. Print - Your Favourite Questions. Join www.zigya.com

B. Both Statements A and B are false

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D. Statement A is true and Statement B is false

Answer

25. The pressure in a fluid that is at rest

- A. acts only in downward direction
- B. acts only sideways
- C. acts in all directions
- D. acts only in vertical direction

Answer

26. Which of the following statements are true about image formation in a plane mirror?

- 1. The image is larger in size than the object.
 - 2. The image is formed at the same distance as the object
 - 3. The image is laterally inverted
 - 4. The image is virtual.
- A. B, C and D
 - B. A, C and D
 - C. All of these
 - D. A, B and C

Answer

27. All of the following are single-celled, except

- A. embryo
- B. paramecium
- C. hen's egg
- D. zygote

Answer

28. Read the following examples from daily life and select the appropriate option.

- 1. When food gets spoiled, it produces a foul smell.
 - 2. A slice of apple acquires brown colour when kept out for some time.
 - 3. When an ant bites, calamine is used to ease the irritation on the skin.
- A. B is a physical change
 - B. A and B are physical changes
 - C. All are chemical changes
 - D. A and B represent chemical changes

Answer

29. A student burns a magnesium ribbon in air and dissolves the ash of the ribbon left after burning

in distilled water. On pouring one drop each of this solution, first in blue litmus and then in red
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litmus solution, he would observe that

- A. blue litmus turns red, whereas the red litmus remains red
B. blue litmus turns red, whereas the red litmus turns blue

- C. blue litmus turns colorless, whereas the red litmus remains red
D. blue litmus remains blue, whereas the red litmus turns blue

Answer

30. "Copper cannot displace zinc from its salt solution. Give the reason."

The following reasons are given by Class VIII students

1. Copper is more reactive than zinc.
2. Copper is less reactive than zinc.
3. Zinc is one of the noble metals.
4. Zinc appears below copper in reactivity series.

Select the correct reason(s) from the reasons given by Class VIII students.

- A. Only A
B. C and D
C. Only B
D. A and D

Answer