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Previous Year Paper

Science - 2014

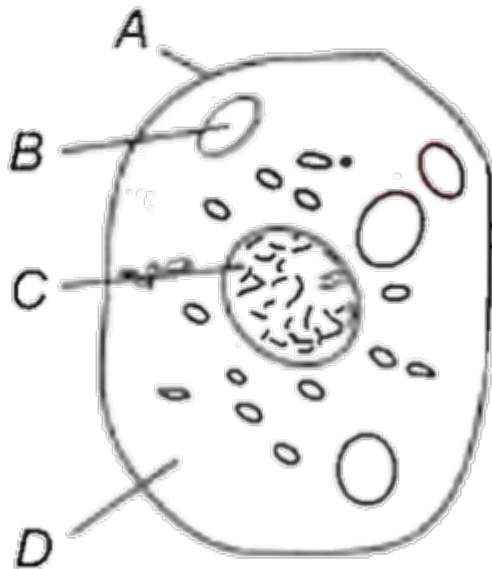


Multiple Choice Questions

1. A solid rectangular block of iron is kept over the top of a table with its different faces touching the table. In different cases, the solid block exerts
 - A. different forces and different pressures
 - B. different forces but same pressure
 - C. same force and same pressure
 - D. same force but different pressures

Answer

2. In the diagram of animal cell given below, the correct labeling of the parts A, B, C and D is



- A - cell membrane
 - B - plastids
 - C - nucleus
 - D - chloroplast
- A - cell wall
 - B - vacuole
 - C - nucleus
 - D - mitochondria
- A - cell wall
 - B - vacuole
 - C - chloroplast
 - D - nucleus

C - nucleus

D - cytoplasm

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Answer

3. The odometer reading of a moving car at 8:00 am is 36540 km and at 10:00 am is 36666 km. If the car is moving on a zigzag path with variable speeds, its average speed (in m/s) is
- 17.5
 - 35
 - 6.3
 - 12.6

Answer

4. A boy has a thick paste of turmeric. On adding this paste to hydrochloric acid and an aqueous solution of sodium hydroxide separately, what color (s) would he observe?
- Pink in hydrochloric acid and blue in sodium hydroxide
 - Blue in hydrochloric acid and red in sodium hydroxide
 - Yellow in both cases
 - Yellow in hydrochloric acid and red in sodium hydroxide

Answer

5. Study the following statements with reference to the villi of the small intestine.
- They are finger-like outgrowths and thousands in number.
 - They have very thin walls.
 - They have a network of thin and small blood vessels close to the surface
 - They have small pores through which food can easily pass.

The statements which enable the villi to absorb the digested food are

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

Answer

6. Given below are some food items.
- Boiled and mashed potato
 - Boiled and chewed rice
 - A slice of bread
 - Sugar solution
 - Coconut oil

Which of the above will give a blue-black colour when tested with iodine solution?

- A, B and C
- A, C and E

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D. B and D

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7. While teaching the correct method of using a spring balance to Class VIII students, Gunjan mentions the following steps (not in the correct sequence) to be followed.

1. Note the zero error.
2. Calculate the actual reading.
3. Note the position of pointer on the graduated scale.
4. Record the least count of the spring balance.

Which one of the following is the correct sequence of the steps to be followed for the said purpose?

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

Answer

8. Which one of the following is not the desired objective of learning Science at the upper primary stage?
- A. To acquire essential process skills
 - B. To perform better in competitive examinations
 - C. To acquire scientific literacy
 - D. To develop rational thinking

Answer

9. The technique of role-play is considered to be an effective strategy in teaching of Science because
- A. it is likely to promote social skills of students
 - B. it ensures breaking of monotony in the process of learning
 - C. it ensures better understanding of one's role in real life
 - D. it ensures active participation of students in the process of learning

Answer

10. Science is considered to be questioning, exploring, doing, and investigating. Which of the following activities, carried out by Dipika in the teaching of Science, is best suited to satisfy these criteria?
- A. A debate on environmental issues
 - B. Project work on nature of sound
 - C. Unit test on micro-organisms
 - D. A group discussion on common diseases

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11. The National Curriculum Framework (NCF), 2005 recommends that teaching of Science at upper primary stage should emphasize maximum on
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- A. answering all questions given in textbook exercises

- B. improving students' performance in examinations
- C. relating classroom learning to life outside the school
- D. memorising all scientific terms given in textbook

Answer

12. Geeta is preparing a lesson plan for teaching the topic of 'Human eye' to class VIII students. Inclusion of which of the following activities in the lesson-plan is likely to be most effective in helping the students understand related concepts better?

- A. Using student activities and interactive classroom questioning
- B. Demonstration using model of human eye
- C. Preparing a good home assignment
- D. Dictating notes to students in the classroom

Answer

13. On the basis of recommendations of National Curriculum Framework (NCF), 2005, NCERT textbooks in Science lay greater emphasis on

1. discouraging rote learning
2. maintaining sharp boundaries between different domains of Science curriculum
3. providing active learning experiences to students
4. learning exact definitions of scientific terms

Which one of the following pairs represents the combination of correct statements given above?

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

Answer

14. Which one of the following approaches adopted by a Science teacher reflects scientific temper on her part?

- A. Encouraging students to ask questions in the classroom
- B. Preparing difficult question papers to enhance learning
- C. Maintaining perfect discipline in the class
- D. Covering the prescribed syllabus as quickly as possible

Answer

15. The following steps (not in the proper sequence) are generally recommended to be followed in the scientific method.

1. Testing of hypothesis
2. Formulation of hypothesis

3. Identification of problem

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Which one of the following is the correct sequence of the above steps to be followed for this

purpose?

- A. D, C, B, A, E
- B. B, C, A, D, E
- C. C, A, D, B, E
- D. C, B, D, A, E

Answer

16. Hands-on activities and projects form an integral part of the learning of Science. These learning experiences primarily aim at

- A. maintaining discipline in the laboratory
- B. providing opportunity to students for extended learning
- C. assessing the students on practical skills
- D. keeping the students engaged all the time

Answer

17. Study the following statements about excretory system in humans

- 1. Wastes dissolved in water are filtered out as urine in the kidneys.
- 2. Urine stored in the urinary bladder is passed out through the urinary opening at the end of the urethra.
- 3. The ureter carries urine to the urinary bladder.
- 4. Useful substances are absorbed back in the blood
- 5. Blood containing useful and harmful substances reaches the kidney for filtration.

The correct order of the processes given in the above statements is

- A. B, D, E, A, C
- B. E, D, A, B, C
- C. D, E, A, C, B
- D. E, D, A, C, B

Answer

18. The pseudopodia of Amoeba are used for

- A. movement
- B. movement and capture of food
- C. sensing the food
- D. capture of food

Answer

19. Below are given some organisms.

- 1. Yeasts
- 2. Bedbugs

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4. Cuscuta

5. Algae

6. Lice

7. Mushrooms

8. Lichens

The organisms which may be classified in the group of parasites are

A. B, C, D and F

B. C, D, E and G

C. A, C, F and G

D. B, C, D and H

Answer

20. Match the columns.

Column A

1. Alexander Fleming

2. Edward Jenner

3. Louis Pasteur

4. Robert Koch

Column B

1. Anthrax bacterium

2. Fermentation

3. Lactobacillus bacterium

4. Penicillin

5. Smallpox vaccine

The correct match of the names of scientists with their discoveries is

A. A : IV

B : II

C : V

D : III

B. A : III

B : V

C : II

D : I

C. A : IV

B : V

C : II

D : I

D. A : III

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Answer

21. Select the correct statement about biosphere reserves
- These are the areas which help to maintain the biodiversity and culture of the areas
 - These are the protected areas reserved for wildlife where they can freely use the habitats and natural resources
 - These are the protected areas meant for the conservation of endemic species
 - These are the areas meant only for the conservation of plants and animals

Answer

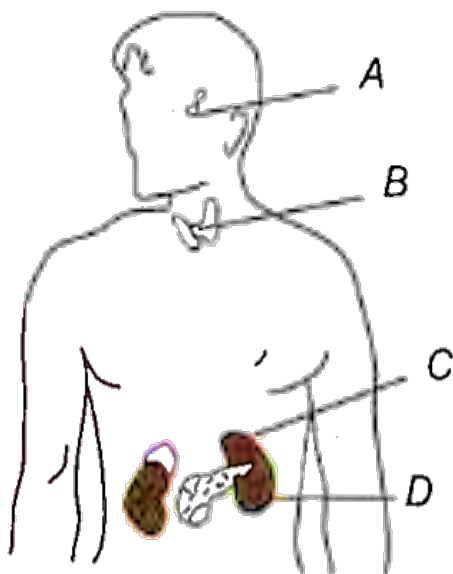
22. Study the following statements.
- Prokaryotes do not have a nucleus.
 - A single cell can perform all the functions in a unicellular organism.
 - Blue-green algae are examples of prokaryotes.
 - Eukaryotes do not have a well-organized nucleus with a nuclear membrane.

The correct statements are

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

Answer

23. In the given diagram, positions of four endocrine glands in the human body are marked by the letters A, B, C and D. The correct labeling of A, B, C and D is



- A - adrenal gland
- B - thyroid gland
- C - pituitary gland
- D - pancreas

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B. A - pituitary gland
B - pancreas

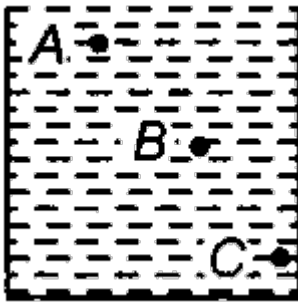
C - thyroid gland
D - adrenal gland

C. A - pituitary gland
B - thyroid gland
C - adrenal gland
D - pancreas

D. A - adrenal gland
B - pituitary gland
C - pancreas
D - thyroid gland

Answer

24. A rectangular container given below is filled with a liquid heavier than water.

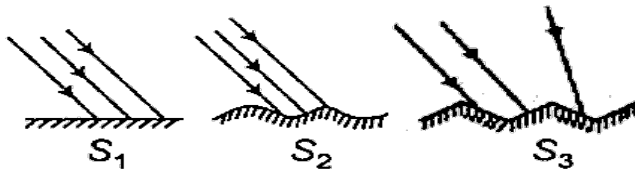


Select the correct statement from the following about the liquid pressure.

- A. Pressure at C > Pressure at B = Pressure at A
- B. Pressure at C > Pressure at B > Pressure at A
- C. Pressure at A = Pressure at B = Pressure at C
- D. Pressure at A > Pressure at B > Pressure at C

Answer

25. Light is falling on the surfaces S_1 , S_2 and S_3 as shown below

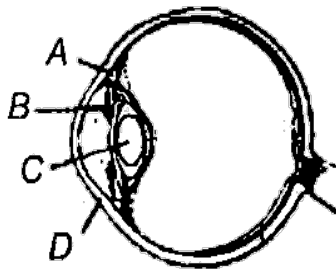


The surfaces on which the angle of incidence is equal to the angle of reflection are

- A. S_1 and S_3
- B. All the three surfaces
- C. S_1 and S_2
- D. S_2 and S_3

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26. In the diagram of human eye given below, the parts marked by A, B, C and D should be labeled as



- A. A-iris, B-cornea, C-pupil, D-lens
- B. A-ciliary muscle, B-iris, C-lens, D-cornea
- C. A-ciliary muscle, B-pupil, C- lens, D-cornea
- D. A-iris, B-pupil, C-lens, D-cornea

Answer

27. Impression of an image persists on the retina of human eye for about
- A. 115s
 - B. 125s
 - C. 1 s
 - D. 12s

Answer

28. Study the following statements.
1. Germination of seeds does not take place under dry conditions.
 2. Nutrients get transported to each part of the plant in a dissolved form.
 3. The supply of water to crops at different intervals improves the texture of the soil.
 4. The supply of water to crops makes the soil porous due to which exchange of gases becomes easy.
 5. Water protects the crops from both frost and hot air currents.

The statements which justify the need to irrigate crops are

- A. C, D and E
- B. A, B and E
- C. A, B and C
- D. B, C and D

Answer

29. Study the following statements
1. Chromosomes are located in the nucleolus.
 2. Genes are located in the chromosomes.

3. Unicellular organisms respire and reproduce.

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4. The most important function of the cell membrane is to control the entry and exit of materials from cells.

The correct statements are

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

Answer

30. The ultrasound equipments used for investigating medical problems work at frequency

- A. between 2000 Hz and 20000 Hz
- B. above 20000 Hz
- C. below 20 Hz
- D. between 20 Hz and 200000 Hz

Answer