

English

1. Reading helps in

c) Both a and b

2. Find a synonym for "reduce" in the passage.

Decrease"

3. Identify the tense in the sentence: "Books introduce us to different cultures."

Simple Present Tense

4. How does reading improve analytical skills?

By exposing readers to different ideas and encouraging critical thinking.

5. Rohan _____ the movie before he read the review.

C had watched

6. By the next month, we shall _____ the project.

D have completed

7. According to the prevailing rate, two dozen _____ rupees one hundred.

B cost

8. The Council _____ made its decision.

C has

9. Identify the tense used in the following sentence. "When I reached the bookstore, all the copies had already been sold."

A Past perfect tense

10. The quality of products _____ over time.

B has been degrading

Maths

1. Can we write 0 in the form of p/q?

- a. Yes
- b. No
- c. Cannot be explained
- d. None of the above

Answer/Explanation

Answer: (a)

Explanation: 0 is a rational number and hence it can be written in the form of p/q.

Example: $0/4 = 0$

2.) In between any two numbers there are:

- a. Only one rational number
- b. Many rational numbers
- c. Infinite rational numbers
- d. No rational number

Answer/Explanation

Answer: (c)

Explanation: Take the reference from question number 2 explained above.

3.) Every rational number is:

- a. Whole number

- b. Natural number
- c. Integer
- d. Real number

Answer/Explanation

Answer: (d)

4.) $\sqrt{9}$ is a _____ number.

- a. Rational
- b. Irrational
- c. Neither rational or irrational
- d. None of the above

Answer/Explanation

Answer: (a)

Explanation: $\sqrt{9} = 3$. Hence, 3 is a rational number.

5.) Which of the following is an irrational number?

- a. $\sqrt{16}$
- b. $\sqrt{(12/3)}$
- c. $\sqrt{12}$
- d. $\sqrt{100}$

Answer/Explanation

Answer: (c)

Explanation: $\sqrt{12}$ cannot be simplified to a rational number.

6.) $3\sqrt{6} + 4\sqrt{6}$ is equal to:

- a. $6\sqrt{6}$
- b. $7\sqrt{6}$

- c. $4\sqrt{12}$
- d. $7\sqrt{12}$

Answer/Explanation

Answer: (b)

Explanation: $3\sqrt{6} + 4\sqrt{6} = (3+4)\sqrt{6} = 7\sqrt{6}$

7.) Which of the following are irrational numbers?

- a. $\sqrt{23}$
- b. $\sqrt{225}$
- c. 0.3796
- d. 7.478478

Answer/Explanation

Answer: (a)

Explanation: $\sqrt{23} = 4.79583152331\dots$

Since the number is non-terminating non-recurring, hence, it is an irrational number.

8.) The decimal expansion of an irrational number may be:

- a) Terminating
- b) Recurring
- c) Either terminating or non-terminating
- d) Non-terminating and non-recurring

Answer

(d)

9.) The product of a rational and an irrational numbers is:

- a) Always an integer
- b) Always a rational number

- c) Always an irrational number
- d) Sometimes rational and sometimes irrational

Answer

(c)

8.) $\sqrt{6} \times \sqrt{27}$ is equal to:

- a. $9\sqrt{2}$
- b. $3\sqrt{3}$
- c. $2\sqrt{2}$
- d. $9\sqrt{3}$

Answer/Explanation

9.) Which of the following is equal to x^3 ?

- a. $x^6 - x^3$
- b. $x^6 \cdot x^3$
- c. x^6 / x^3
- d. $(x^6)^3$

Answer/Explanation

Answer: (c)

Explanation: $x^6 / x^3 = x^{6-3} = x^3$

10.) $4\sqrt{5} + 5\sqrt{5}$ is equal to:

- a) $9\sqrt{5}$
- b) $9\sqrt{10}$
- c) $5\sqrt{10}$
- d) $7\sqrt{5}$

Answer A)

Class 9 Science Worksheet: Animal Cell (Case-Based MCQs)

Case Study:

Aman observed a slide of an animal cell under a microscope in his biology lab. He noticed different cell

organelles. The cell did not have a cell wall but had a distinct nucleus. He also observed mitochondria, ribosomes, cytoplasm, and a cell membrane. His teacher asked him to identify the functions of these organelles and explain why the animal cell is different from a plant cell.

1. Which structure forms the outer boundary of the animal cell?

- A. Cell wall
- B. Cell membrane
- C. Cytoplasm
- D. Nucleus

ANS=B

2. Why does the animal cell not have a cell wall?

- A. It needs flexibility
- B. It stores food
- C. It produces energy
- D. It controls activities

ANS=A

3. Which organelle is known as the “powerhouse of the cell”?

- A. Nucleus
- B. Ribosome
- C. Mitochondria
- D. Cytoplasm

ANS=C

4. What is the function of the nucleus?

- A. Produces energy
- B. Controls cell activities
- C. Synthesizes proteins
- D. Transports materials

ANS=B

5. Where are ribosomes found in the cell?

- A. Only in nucleus
- B. In cytoplasm or attached to ER
- C. Only in mitochondria
- D. Outside the cell

ANS=B

6. Which part of the cell contains all organelles suspended in it?

- A. Cell membrane
- B. Nucleus
- C. Cytoplasm

D. Vacuole

ANS=C

7. What is the main function of mitochondria?

- A. Protein synthesis
- B. Energy production
- C. Storage of water
- D. Protection

ANS=B

8. Which structure is present in plant cells but absent in animal cells?

- A. Nucleus
- B. Cytoplasm
- C. Cell membrane
- D. Cell wall

ANS=D

9. Which organelle helps in protein synthesis?

- A. Ribosomes
- B. Mitochondria
- C. Nucleus
- D. Lysosomes

ANS=A

10. What makes the animal cell different from the plant cell in this case?

- A. Presence of nucleus
- B. Absence of cytoplasm
- C. Absence of cell wall
- D. Presence of mitochondria

ANS=C

SO SCIENCE

Q. 1 Which of the following is a resource essential for life?

- (a) Coal
- (b) Water
- (c) Wood
- (d) Oil

Q. 2 Who defeated Prithviraj Chauhan in 1192?

- a) Babur
- b) Timur
- c) Muhammad Gauri
- d) Akbar

Q. 3 Who is considered the founder of the Maratha state?

- a) Bajirao I
- b) Shivaji Maharaj
- c) Mahadji Shinde
- d) Kanhoji Angre

Q. 4 Which battle marked the beginning of British political dominance in India?

- a) Battle of Panipat
- b) Battle of Plassey
- c) Battle of Buxar
- d) Battle of Haldighati

Q. 5 Which factor of production refers to all natural resources?

- a) Land
- b) Labour
- c) Capital
- d) Entrepreneurship

Q. 6 Interest is the reward for:

- a) Capital
- b) Land
- c) Labour
- d) Entrepreneurship

Q. 7 What does “universal adult franchise” mean in India?

- a) Only men can vote
- b) Only property owners can vote
- c) All citizens above 18 can vote
- d) Only educated citizens can vote

Q. 8 Which body conducts elections in India?

- a) Supreme Court
- b) Parliament
- c) Election Commission of India
- d) State Assemblies

Q. 9 The two Houses of the Indian Parliament are:

- a) Lok Sabha and Vidhan Sabha
- b) Rajya Sabha and Vidhan Parishad
- c) Lok Sabha and Rajya Sabha
- d) President and Lok Sabha

Q.10 Who is the presiding officer of the Lok Sabha?

- a) Vice-President
- b) Prime Minister
- c) Speaker
- d) President

Answer -

1. (B) water

2. (C) Mohammad Gauri

3.(B) Shivaji maharaj

4 . (B) battle of Plassey

5. (A)land

6. (A)capital

7 .(C) All citizens above 18 Can vote

8 .(C) Election commission of India

9. (C) Loksabha and rajyasabha 10. (C) Speaker