

CTET Science Paper 2 Questions and Answers

A is a technique of vegetative propagation in which a part of the stem or a young branch of a plant is pulled and buried in moist soil, such that the branch is still attached to the Parent Plant. After some time, roots develop in the buried part and it grows into a new plant. **B** is an example of plant usually grown through this technique.

Here A and B respectively are:

- (A) Layering, Jasmine
- (B) Cutting, Potato
- (C) Grafting, Rose
- (D) Budding, Hydra

Answer: A

Which of the following should not be the purpose of open book assessment in Science?

- (A) To give opportunity to explore the book
- (B) To reduce the fear of assessment in learners
- (C) To gauge conceptual understanding of learners
- (D) To score more marks in tests

Answer: D

Which of the following have the most scope for promoting Art integrated learning in Science?

- (A) Journal writing, Field trips
- (B) Portfolios, Anecdotal records
- (C) Projects, Portfolios
- (D) Anecdotal records, Journal writing

Answer: C

Which of the following questions is a divergent question?

- (1) What would happen to gravity if the size of earth is reduced to half?
- (2) Why does a ball thrown up comes down?
- (3) What if there was no gravity on the earth?

(4) How does gravity vary with the altitude?

Answer: C

Which of the following statements are true?

- (1) Crystallisation is a chemical change.
 - (2) Photosynthesis is a chemical change.
 - (3) Ripening of fruit is a physical change.
 - (4) Formation of curd from milk is a chemical change.
- (A) (3) and (4)
- (B) (1) and (2)
- (C) (2) and (4)
- (D) (2) and (3)

Answer: C

Which of the following is not a feature of alternate conceptions in science?

- (A) Ideas are stable.
- (B) Ideas are resistant to change.
- (C) Ideas are developed from observable features.
- (D) Ideas do not demonstrate cause and effect reasoning

Answer: D

Which of the following is/are true regarding scientific investigations?

- (1) Results are not influenced by procedure.
- (2) Social context may influence conclusions in any investigation.
- (3) Data and evidence are same.
- (4) There is no universal scientific method.
- (A) (1) and (2)
- (B) (2) and (4)
- (C) (1) and (3)
- (4) (3) and (4)

Answer: B

Which of the following characterizes human circulatory system?

- (A) open, single circulation
- (B) open, double circulation
- (C) closed, single circulation
- (D) closed, double circulation

Answer: D

Which of the following is not caused due to excessive use of fertilizer and pesticides?

- (A) Soil erosion
- (B) Nitrification
- (C) Eutrophication
- (D) Bio-magnification

Answer: A

Which of the following is true regarding scientific laws?

- (A) They describe relationships between observable phenomena.
- (B) They are formed from scientific theories.
- (C) They can't be challenged.
- (D) They provide reasoning for physical phenomena.

Answer: A

Two sperms of a man fuse with two eggs of a woman. The twins formed are:

- (A) identical
- (B) fraternal
- (C) may be identical or fraternal
- (D) always conjoint

Answer: B

Which of the following illustrates 'science as inquiry'?

- (A) Classify the given plants into herbs, shrubs and trees
- (B) Explore factors which affect the rate of germination in gram seeds
- (C) List five uses of coconut tree
- (D) Observe the types of venation in various leaves

Answer: B

Identify the set of micronutrients (nutrients required by plants in small quantities):

- (A) Potassium, Magnesium, Copper
- (B) Copper, Phosphorous, Calcium
- (C) Sulphur, Aluminium, Chlorine
- (D) Zinc, Iron, Manganese

Answer: D

Identify the correct statement(s):

(1): A fact is an observation that has repeatedly been found to be true over the time.

(2): A law is a theory that has repeatedly been found to be true over the time.

- (A) Only (1)
- (B) (1) and (2)
- (C) Only (2)
- (D) Neither (1) nor (2)

Answer: A

Which of the following is NOT indicative of the hypothesising skill?

- (A) Formulating questions which lead to inquiry
- (B) Attempting to explain observations or relationships in terms of some principle
- (C) Using the senses to gather information
- (D) Identifying variables for an experiment

Answer: C

A ball is thrown up in the air. It reaches a maximum height and then returns to the thrower. Which of the following quantities have the same values during the upward and downward motion of the ball?

- (A) Acceleration
- (B) Force of gravity
- (C) Displacement
- (D) Work done by gravity

Answer: A

Which of the following is a set of animals in which all show external fertilization?

- (A) Hens, lizards, butterflies
- (B) Lizards, butterflies, frogs
- (C) Butterflies, frogs, fish
- (D) Frogs, fish, starfish

Answer: D

Which of the following best explains the statement 'science promotes skepticism'?

- (A) Scientists judge the validity of a claim based on objective empirical evidence
- (B) Science is purely inductive in nature
- (C) Scientists do not trust the findings of other scientists
- (D) Scientists are open-minded and willing to modify their ideas

Answer: A

Which of the following is not desirable with respect to carrying out of a classroom demonstration by a teacher?

- (A) Rehearse the demonstration before carrying it out in class
- (B) Emphasise beforehand the linkages that students are required to make
- (C) Supplement the demonstration with explanations
- (D) Follow up the demonstration with discussion

Answer: B

Which of the following is the most suitable reason behind Newtons theory of gravitation being regarded as an excellent theory?

- (1) It explains larger number of observations by making fewer assumptions

- (2) It has been arrived at after thorough experimentation
- (3) It has been formulated using the precise language of mathematics
- (4) It has been developed over a long period of time

Answer: A

Note: These questions are compiled from the official CTET Previous Years Question Papers.

