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Previous Year Paper

Science - 2015



Multiple Choice Questions

1. I put one ear on a steel railroad track.

1. I am able to hear the approaching train sooner through the track than through the air
2. Sound travels faster through steel as compared to air
3. Sound travels faster through solids as compared to gases.

Of the above three statements, identify which ones are observations and which are inferences?

- A. B is an observation and A and C are inferences
- B. A is an observation and B and C are inferences
- C. C is an observation and A and B are inferences
- D. A and B are observations and C is an inference

[Answer](#)

2. Which one among the following situations gives the learners the best opportunity to 'discover knowledge'?

- A. Students being instructed through 'team teaching' on 'materials of daily use'
- B. Students undergoing an elaborate and detailed session of 'programmed instruction' on the topic 'components of food'
- C. Students being first shown the demonstration of Archimedes Principle' followed by a detailed explanation
- D. Students labeling the given materials as 'conductors' and 'non-conductors' by placing them in a self-assembled closed electric circuit

[Answer](#)

3. Which one among the following questions would be an 'open-ended question'?

- A. Explain why we always see the same side of the Moon?
- B. Why does the Moon change its shape daily?
- C. Suppose the Moon emits light of its own, would it still have phases
- D. Meteors are not visible during the daytime. Explain the reason

[Answer](#)

4. Describing the relationship between the distance traveled by a ball that is rolled on the inclined plane and the angle of the plane by constructing a graph is an example of

- A. hypothesizing

- B. communicating

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D. interpreting

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Answer

5. Which one among the following is not a desirable aim of science education at the upper primary level?

- A. To know the facts and principles of science and its applications
- B. To nurture the natural curiosity, aesthetic sense, and creativity in science and technology
- C. To gain the knowledge available through memorizing the content and process of science
- D. To imbibe the values of honesty, integrity and cooperation

Answer

6. A class VIII student makes the statement

"We live inside the Earth and it is round. That's why Columbus' ship returned to the starting point."

How is the science teacher of class VIII best advised to react?

- A. Challenge the child's idea by presenting pictures taken from space and helping her in understanding how large the radius of the Earth is
- B. Reject the statement and tell the child that it is like a globe and we live on the surface of the round Earth
- C. Explain that although the Earth is round like a ball yet it appears circular like a plate
- D. Accept the statement as it indicates the child's idea and needs to be respected

Answer

7. Select the correct statement regarding rods and cones in the human eye.

- A. Cones are sensitive to dim light
- B. Rods are sensitive to bright light
- C. Cones are sensitive to bright light
- D. Rods can sense colour

Answer

8. Consider the following terms

- 1. Lightning
- 2. Landslide
- 3. Thundering
- 4. Tsunami
- 5. Floods

Earthquakes can cause

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

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D. Only A

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9. An object is vibrating at 5000 Hz. The time period of the sound produced is

- A. 0.005 sec
- B. 0.02 sec
- C. 0.0002 sec
- D. 0.5 sec

Answer

10. Which one of the following is the most appropriate technique of assessment of attitude and values development among students by science education?

- A. Paper-pencil test
- B. Observation
- C. Check-list
- D. Rating scale

Answer

11. A teacher frames a learning objective as-"Making a device using simple electric circuit". This learning objective is matching with which cognitive process?

- A. Understanding
- B. Creating
- C. Analyzing
- D. Remembering

Answer

12. Good science education' should fulfill some basic validity. Which one of the following validities is most appropriately fulfilled by the concept of 'shadow formation' in the class VI syllabus at the upper primary level?

- A. Process
- B. Cognitive
- C. Environmental
- D. Content

Answer

13. Which one of the following statements about scientific knowledge would you not agree with?

- A. Scientific knowledge is absolute, certain, and eternal
- B. The development of scientific knowledge involves imagination and creativity
- C. Scientific knowledge is socially and culturally embedded
- D. Scientific knowledge is theory-laden

Answer

14. Which one of the following planets has no natural satellite of its own?

- A. Uranus

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C. Venus

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D. Jupiter

Answer

15. A bus covers the first 10 km of its journey at an average speed of 40 km/h and the remaining 45 km at an average speed of 60 km/h. The average speed of the bus for its total journey is
- A. 52.5 km/h
 - B. 55 km/h
 - C. 50 km/h
 - D. 57.5 km/h

Answer

16. Which one of the following shows the correct sequence of the path of urine in the human excretory system?
- A. Kidney → Urinary bladder → Ureter → Urethra
 - B. Kidney → Ureter → Urinary bladder → Urethra
 - C. Kidney → Urinary bladder → Urethra → Ureter
 - D. Kidney → Urethra → Urinary bladder → Ureter

Answer

17. Sometimes after doing physical work we get muscle cramps. This results due to
- A. non-conversion of glucose to pyruvate
 - B. conversion of pyruvate to alcohol
 - C. non-conversion of glucose to lactic acid
 - D. conversion of pyruvate to lactic acid

Answer

18. Polio is caused by a
- A. Protozoa
 - B. Fungi
 - C. Virus
 - D. Bacteria

Answer

19. Which one of the following sets is the combination of organs of the human digestive system that do not carry out any digestive function?
- A. Oesophagus, large intestine, rectum
 - B. Buccal cavity, esophagus, large intestine
 - C. Buccal cavity, large intestine, rectum
 - D. Buccal cavity, oesophagus, rectum

Answer

20. Which one of the following can be used to form a virtual and magnified image of an object?
- A. Both the convex mirror and convex lens

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D. Only concave lens

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21. Select from the following a set of ruminants

- A. Buffalo, cow, deer
- B. Cat, buffalo, deer
- C. Buffalo, cow, dog
- D. Cow, deer, dog

Answer

22. Study the following statements about villi (singular villus).

- 1. They have very thin walls.
- 2. They are finger-like projections.
- 3. They have a network of thin and small blood vessels close to the surface.
- 4. They have small pores through which food can easily pass.

Identify the statements which give the characteristics that enable the villi to absorb the digested food.

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

Answer

23. Consider the following edible plants

- 1. Banana
- 2. Brinjal
- 3. Lady's finger
- 4. Pumpkin

Select from these a pair of plants that has two or more than two edible parts.

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

Answer

24. An object of mass 6 kg is sliding on a frictionless horizontal surface with a uniform speed of 3 m/s. The force required to keep the object moving at the same speed along the same straight line is

- A. 27 newton
- B. 18 newton
- C. 54 newton

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Answer

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25. Which one of the following elements must be available in sufficient quantity in the water of a pond in at tadpoles are growing?

- A. Oxygen
- B. Iodine
- C. Nitrogen
- D. Chlorine

Answer

26. In human beings, the correct sequence of the events during reproduction is

- A. zygote, gamete formation, fertilisation, embryo
- B. gamete formation, fertilisation, zygote, embryo
- C. gamete formation, zygote, fertilisation, embryo
- D. gamete formation, fertilisation, embryo, zygote

Answer

27. Consider the following terms related to cells.

- 1. Chromosome
- 2. Gene
- 3. Nucleolus
- 4. Ribosome

Out of these, the parts of the nucleus of a cell are

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

Answer

28. Tartaric acid is found in

- 1. Lemons
- 2. Amla
- 3. Unripe mangoes
- 4. Grapes

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

Answer

29. The common characteristic properties of plastics are

- A. durable, good conductor of electricity, non-reactive

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C. good conductor of heat, light in weight, a good conductor of electricity

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D. durable, light in weight, non-reactive

Answer

30. Consider the following statements about biodiversity.

1. It refers to the total number of individuals of a particular species living in an area.
2. It refers to only the flora and fauna of a particular species in a given area.
3. It refers to the various (variety of) species of flora and fauna present in an area.
4. It is an artificially protected area for animals.

The true statement(s) about biodiversity is/are

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

Answer