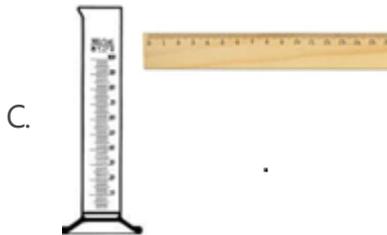
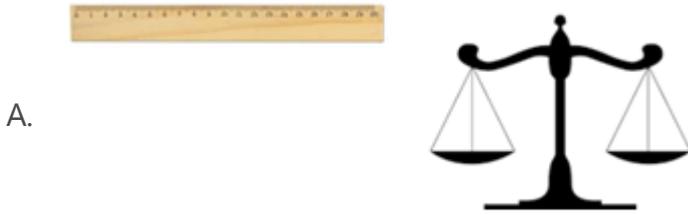


1. Ritu wants to compare the mass and volumes of three objects. Which two instruments should be used?



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2. Which of the following describes Dengue?

- A. Infectious, non-contagious
  - B. Non-infectious, non-contagious
  - C. Infectious, contagious
  - D. Non-infectious, contagious
-

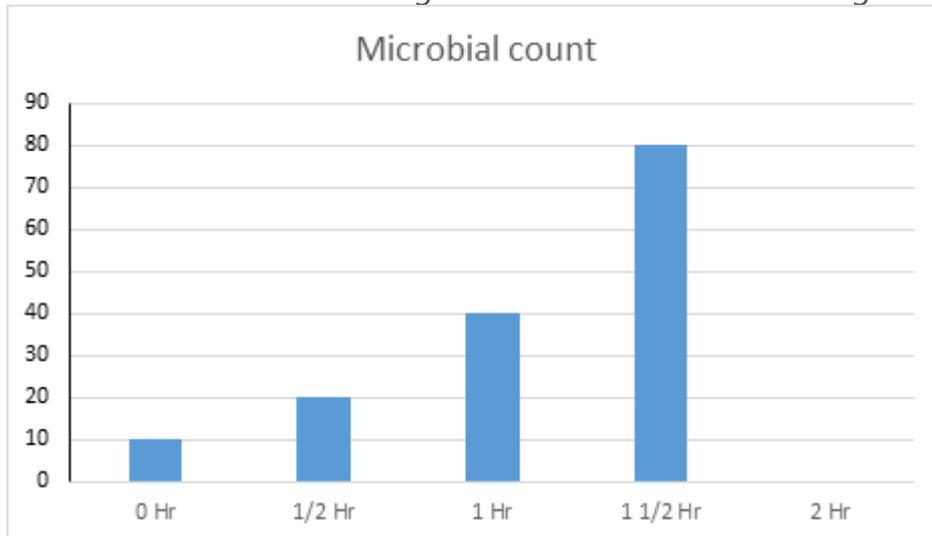
3. Mona listed following key words related with properties of sources of energy –

- I. Non-exhaustible
- II. Easily available
- III. Cheap
- IV. Renewable

Which of these meets the criteria listed by Mona?

- A. Nuclear power
  - B. Thermal energy
  - C. CNG
  - D. Biogas
- 

4. A scientist recorded the growth in number of a microorganism for two hours.



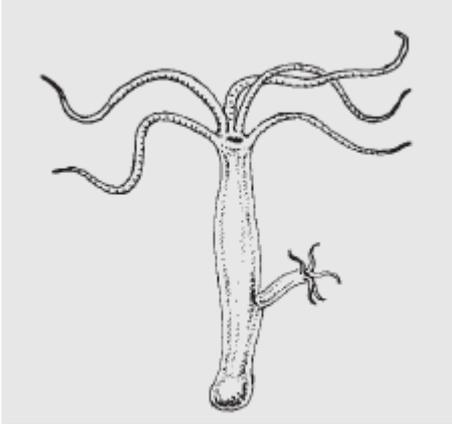
What would be the number of microorganism after 2 hours?

- A. 90
  - B. 100
  - C. 120
  - D. 160
- 

5. Which form of energy is present in fossil fuels?

- A. Solar energy
  - B. Chemical energy
  - C. Electrical energy
  - D. Mechanical energy
-

6. Which method of reproduction has been shown in the given diagram?



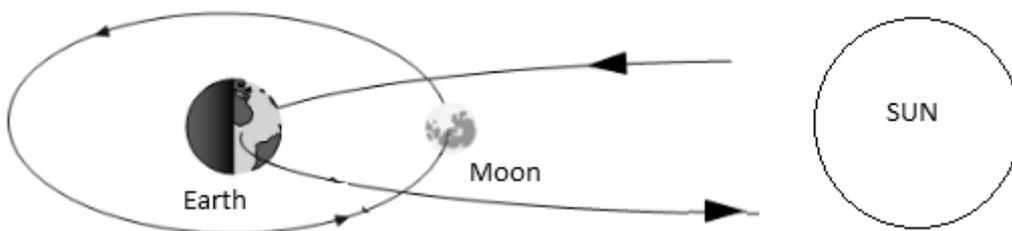
- A. Budding
  - B. Fragmentation
  - C. Segmentation
  - D. Conjugation
- 

7. It is easy to put a sharp nail on a wood log than a blunt nail because of –

- A. Large volume
  - B. Large surface area
  - C. High pressure
  - D. Heavy weight
- 

8.

Which phenomenon could be best explained by the given diagram?



- A. solar eclipse
  - B. lunar eclipse
  - C. formation of day and night
  - D. occurrence of seasons
-

9. Which of the following best lists the features of solar energy?

- A. Inexhaustible, renewable, direct use
  - B. Inexhaustible, non-polluting, continuous supply
  - C. Renewable, non-polluting, huge source
  - D. Renewable, direct use, huge source
- 

10. Four students collected following materials in their garden compost pits and covered it with soil. They watered their pits occasionally.

Student    Materials collected in garden pits

Manu        Dry leaves, vegetable peels, banana peels, left-over food

Nidhi       Paper cups, biscuit wrapper, tissue paper, plastic bottles

Shyam      Tea leaves, Vegetable peels, waste bread, earthworm

Elli         Sand, fertiliser, plastic bottles, earthworm

After one and half months, only two students could get manure from their pits. They were -

- A. Manu and Nidhi
  - B. Nidhi and Shyam
  - C. Manu and Shyam
  - D. Elli and Manu
- 

11. Which of these is a chemical change?

- A. Freezing of lakes
  - B. Souring of milk
  - C. Mixing of soil and water
  - D. Making aluminium foil from wire
-

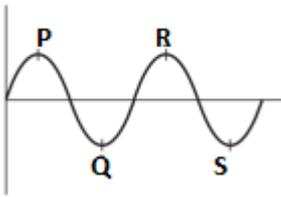
12. Raveena wants to see if plants can grow when watered with X brand of cold drink. She noted down some options as following –

- I. Take two different potted plants
- II. Take two same potted plants
- III. Give equal quantity of water to both plants
- IV. Give water to one plant and the same amount of X cold drink to another plant
- V. Put both plants under Sun
- VI. Put one plant indoor, another under sun

Which set of options would provide Raveena desirable result?

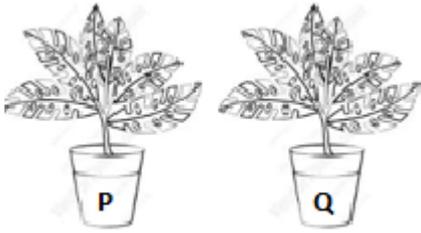
- A. I, II, V
  - B. I, IV, VI
  - C. II, IV, V
  - D. II, IV, VI
- 

13. Distance PR in the illustration of the shown wave is called -



- A. Pitch
  - B. Amplitude
  - C. Frequency
  - D. Wavelength
-

14. Raja wanted to see if plants grow better with mineral water of X brand of tap water. He took two same potted plants as shown below.



Which of the following would give him best result?

- A. P = Only tap water; Q = Only mineral water
  - B. P = Both tap and mineral water; Q = Only mineral water
  - C. P = No water; Q = Mineral Water
  - D. P = Both tap and mineral water; Q = Both tap and mineral water
- 

15. Which part of human cell is largely responsible for transfer of traits from parents to the progeny?

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

16. Which of the following lists the layer in order of increasing distance from the earth?

- A. Troposphere, mesosphere, stratosphere
  - B. Troposphere, stratosphere, mesosphere
  - C. Stratosphere, troposphere, mesosphere
  - D. Stratosphere, mesosphere, troposphere
- 

17. In an electromagnet, a conductor is coiled around -

- A. a test tube
  - B. an iron nail
  - C. a roll of paper
  - D. a pencil cell
-

18. Which of the following is NOT an advantage of irrigation?

- A. keeps soil insects away
  - B. improves soil aeration
  - C. dissolves nutrients in fertilisers
  - D. helps in germination of seeds
- 

19. Which of the following is the list of gases found in the atmosphere in increasing order of abundance?

- A. Nitrogen, oxygen, carbon dioxide
  - B. Oxygen, carbon dioxide, nitrogen
  - C. Nitrogen, carbon dioxide, oxygen
  - D. Carbon dioxide, oxygen, nitrogen
- 

20. Which of the following is correct sequence of events related to fertilisation?

- A. Release of ovum " Formation of zygote Fertilisation Maturation of ovum
  - B. Maturation of ovum " Release of ovum Formation of zygote Fertilisation
  - C. Maturation of ovum " Release of ovum Fertilisation Formation of zygote
  - D. Release of ovum " Maturation of ovum Formation of zygote Fertilisation
-