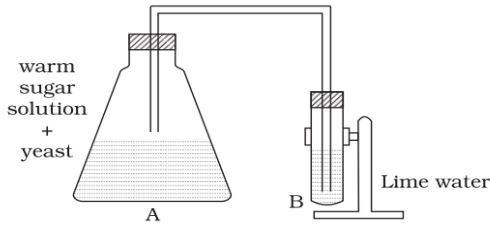


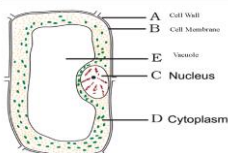
1. Which of the following statement is incorrect regarding organic manure used for good yield of crops?
- (A) Enhances water holding capacity of soil.                      (B) Possess a balance of all plant nutrients.  
 (C) Adds humus to soil.    (D) Improves the texture of soil.

2. Which of the following correctly describe the changes in test tube B?



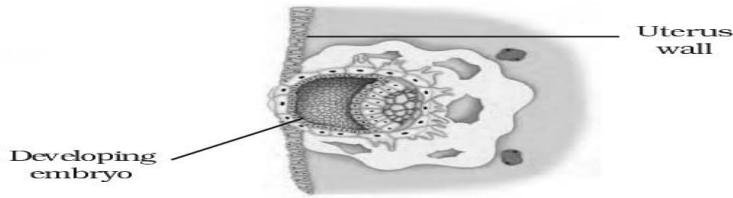
- (A) Color of the solution in test tube a will changes to blue.  
 (B) Temperature in the test tube B decreases.  
 (C) Lime water in test tube B turns milky.  
 (D) None of the above
3. A company chose fiber X for manufacturing of ropes and parachutes. What is X?  
 (A) Polyester                      (B) Wool                      (C) Cotton                      (D) Nylon
4. When a piece of copper wire is placed into silver nitrate solution the color of the solution changes from colorless to blue. This is due to:  
 (A) The formation of copper sulphate                      (B) The formation of copper nitrate  
 (C) The deposition of copper                      (D) The deposition of silver
5. Which derivative of coal was used for metaling roads?  
 (A) Carbon                      (B) Coke                      (C) Coal gas                      (D) Coal-tar
6. You can boil water in a paper cup without burning the paper, because  
 (A) Paper is not combustible.  
 (B) Paper is not reaching its ignition temperature  
 (C) Water extinguish the fire when paper starts to burn  
 (D) None of the above
7. A student was cooking potato curry in a copper vessel. He observed that the copper vessel used for cooking get blackened from outside. It may be due to:  
 (A) proper combustion of fuel.                      (B) improper combustion of the fuel.  
 (C) improper cooking of potato curry.                      (D) burning of copper vessel.
8. Which of the following place assures conservation of biodiversity in their natural habitat?  
 (i) Zoological garden (ii) Botanical garden (iii) Wildlife sanctuary (iv) National park  
 (A) i & ii;                      (B) ii & iii;                      (C) iii & iv;                      (D) i & iv

9. How is this cell different from an animal cell?



- (A) Mitochondria                      (B) Cytoplasm                      (C) Nucleus                      (D) Cell wall

10. Which process of fertilization is being depicted by this figure?



- (A) Embedding of the embryo in the uterus (B) Formation of zygote  
 (C) Development of an embryo (D) Fertilization

11. Which of the following is not a part of the menstrual cycle?

- (A) Maturation of egg and its release (B) Thickening of uterine wall  
 (C) Breakdown if pregnancy does not occur. (D) Development of embryo

12. Which points are bearing same pressure?



- (A) B and C (B) A and D (C) A and B (D) C and D

13. What will be direction of the friction exerted by the road on the car?



- (A) From right to left ( $\leftarrow$ ) (B) Vertically downwards ( $\downarrow$ )  
 (C) From left to right ( $\rightarrow$ ) (D) Vertically upwards ( $\uparrow$ )

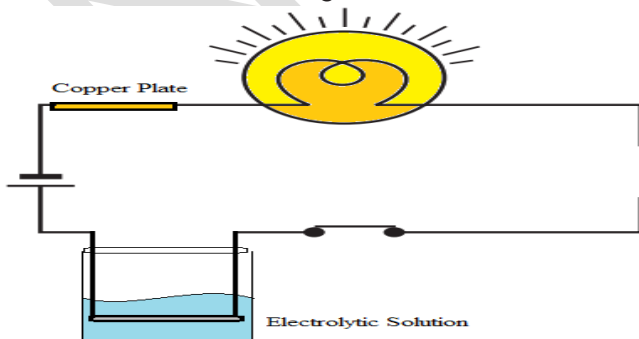
14. Which of the following is not a non-contact force?

- (A) Magnetic force (B) Electrostatic force (C) Gravitational force (D) Frictional force

15. Ultrasound has frequency of vibration

- (A) between 20 and 20,000 Hz (B) below 20 Hz  
 (C) above 20,000 Hz (D) between 500 and 10,000 Hz

16. Which of the following solutions will not make the bulb in the figure glow?



- (A) NaCl (B)  $\text{CuSO}_4$  (C)  $\text{AgNO}_3$  (D) Aqueous Sugar Solution

17. In the following figure the aluminum strips are replaced by plastic strips and a charged body is brought in contact with the metal clip. What would be the observation?



- (A) Plastic strips diverge                      (B) Plastic strips come closer  
(C) Plastic strips remain in their position      (D) None of these

18. In which of these defects of vision does the eyeball become small?

- (A) myopia                      (B) hypermetropia      (C) astigmatism      (D) presbyopia