

SUBJECT : SCIENCE (MULTIPLE CHOICE QUESTIONS)

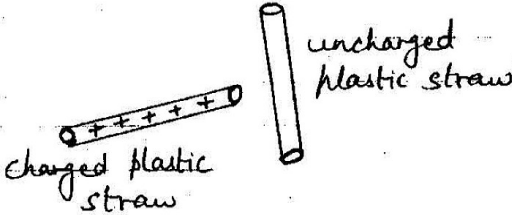
Time : 30 minutes

M.M.: 15

General Instructions :

1. **Attempt all questions.**
2. **There are 15 multiple choice questions in total. Only one of the options in every question is correct. Put a (✓) against the correct option.**
3. **Each question carries 1 mark.**
4. **Do not use white fluid on these sheets.**
5. **Use only pen to mark the answers.**

- Q1. The two common forces that are acting everywhere around us are
- (a) gravity and electrostatic force (b) gravity and magnetic force
 (c) friction and gravity (d) friction and electrostatic force
- Q2. If a charged plastic straw is brought near an uncharged one, we will observe



- (a) repulsion (b) attraction
 (c) both attraction and repulsion (d) neither attraction nor repulsion
- Q3. If amplitude increases 7 times, then the loudness of the sound will increase
- (a) 14 times (b) 70 times
 (c) 7 times (d) 49 times
- Q4. Sonia stretched a rubber band with her fingers. Which effect of force is seen here?
- (a) Change in shape (b) Change in state of motion
 (c) Change in direction (d) Both (a) and (b)
- Q5. If a force of 70N acts on an area of 10m² then the pressure exerted is of magnitude
- (a) 700 N/m (b) 700 Pascal
 (c) 70 Pascal (d) 7 Pascal

Q6. Dr. Kumar is trying to identify an unknown metal 'Z'. When he places it in copper sulphate solution there is a reaction and red brown pieces of copper fall to the bottom of the test tube. When he places it in zinc sulphate solution nothing happens. Dr. Kumar identified the metal as _____

- (a) sodium (b) iron
(c) calcium (d) magnesium

Q7. Which one of the following will be required to identify the gas evolved when dil. HCl reacts with zinc metal?

- (a) a burning matchstick (b) red litmus solution
(c) blue litmus solution (d) lime water

Q8. The formation of magnesium oxide from its elements is a reaction between _____

- (a) two metals (b) two non-metals
(c) metal and non-metal (d) a base and an acid

Q9. Metal A can displace B from its salt solution and metal C can displace A from its salt solution. Metal B cannot displace C from its salt solution. The correct order of their reactivity is -

- (a) $C > A > B$ (b) $A > C > B$
(c) $C > B > A$ (d) $B > C > A$

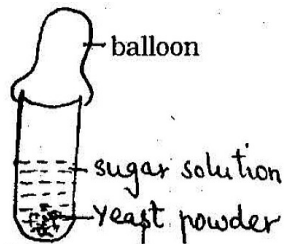
Q10. Pratyush took sulphur powder in a spatula and heated it. He collected the gas evolved in a test tube and dissolved it in water. The solution formed turned blue litmus red due to the formation of -

- (a) sulphur dioxide (b) sulphur hydroxide
(c) sodium sulphate (d) sulphurous acid

Q11. A student set up an experiment as shown in the figure to show the process of fermentation in the laboratory. After 3-4 hours he noticed that the balloon had inflated due to the formation of a gas 'A'. Solution 'B' was left in the test tube.

He identified 'A' and 'B' as -

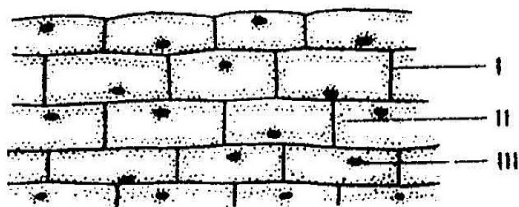
- (a) A - carbondioxide, B - acid (b) A - oxygen, B - water
(c) A - carbondioxide, B - alcohol (d) A - oxygen, B - alkali



Q12. Identify the wrong step in the procedure to make a temporary mount of onion peel from the following :

- (a) keep the peel in water
- (b) use glycerine to stain the peel
- (c) mount the peel in the centre of the slide
- (d) cover it with a coverslip before observing under the microscope.

Q13. The correct labelling for the slide of onion peel shown in the figure is -



- (a) I - cell wall, II - cytoplasm, III - nucleus
- (b) I - nucleus, II - cytoplasm, III - cell membrane
- (c) I - cytoplasm, II - cell wall, III - nucleus
- (d) I - cell membrane, II - nucleus, III - cytoplasm

Q14. Seema used crushed pulp of onion, Meena used dry scale leaf of onion, Somya used green leaf of onion and Shweta used thin layer of fleshy leaf of onion. As a science student who used the correct material for making a temporary mount of onion peel?

- (a) Seema - crushed pulp of onion
- (b) Shweta - fleshy leaf of onion
- (c) Meena - dry scale leaf of onion
- (d) Somya - green leaf of onion

Q15. Proper staining is an important step while preparing the slide of onion peel because stain

- (a) prevents the cells from dehydration
- (b) highlights the structures of the cell
- (c) makes mounting easy
- (d) both (a) and (b)