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**ZIET BHUBANESWAR**  
**CCT Type Interactive Questions**

**SUBJECT: CHEMISTRY**  
**STANDARD: IX - XII**

**A.K.Gupta, TA (Chemistry)**

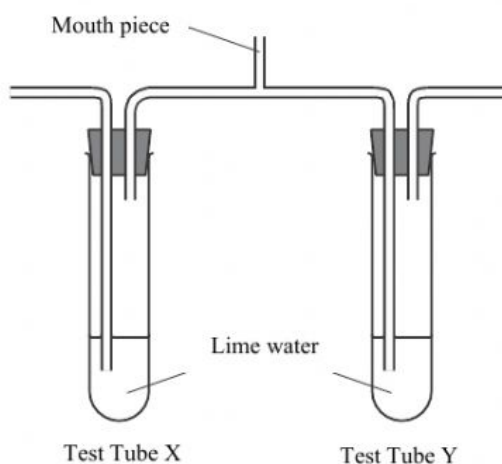
**Q1.** Process Q happens in cells.

Carbohydrates → process Q → energy released

What is process Q?

- A** growth
- B** nutrition
- C** respiration
- D** sensitivity

**Q2.** The diagram shows apparatus at the start of a breathing experiment.



A person breathes in and out through the mouthpiece for a short time.

Which row shows the results?

	limewater in tube X	limewater in tube Y
<b>A</b>	stays clear	stays clear
<b>B</b>	stays clear	turns cloudy
<b>C</b>	turns cloudy	stays clear
<b>D</b>	turns cloudy	turns cloudy

**Q3.** Materials are exchanged between a mother and her fetus across the placenta.

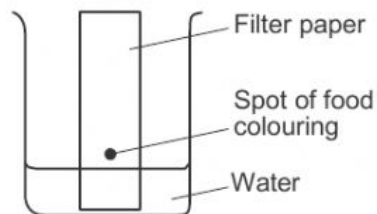
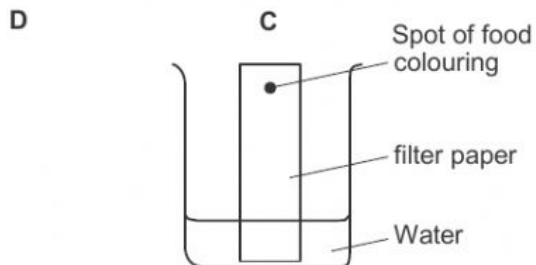
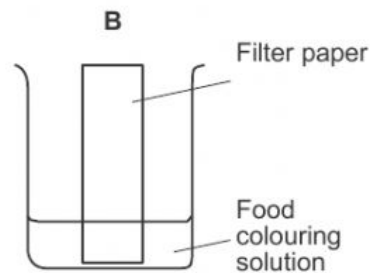
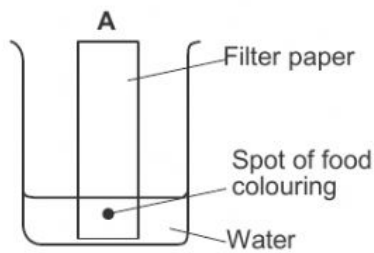
Which row shows the overall direction of movement of these materials?

	<b>mother to fetus</b>	<b>fetus to mother</b>
<b>A</b>	amino acids	glucose
<b>B</b>	amino acids	urea
<b>C</b>	carbon dioxide	glucose
<b>D</b>	carbon dioxide	urea

**Q4.** What is an undesirable effect of overuse of fertilisers in agriculture?

- A** acid rain
- B** deforestation
- C** eutrophication
- D** global warming

**Q5.** Which diagram shows how a mixture of dyes in a food colouring are separated?



Q6. Which statement describes a mixture?

- A It contains molecules made from the same type of atom.
- B It contains only one type of atom.
- C It contains two different types of atom joined by chemical bonds.
- D It contains two different types of atom that can be separated by physical processes.

Q7. Molten sodium chloride is electrolysed.

Which equations represent the reactions at the electrodes?

	anode	cathode
A	$2Cl^- \rightarrow Cl_2 + 2e^-$	$Na^+ + e^- \rightarrow Na$
B	$Cl_2 + 2e^- \rightarrow 2Cl^-$	$Na \rightarrow Na^+ + e^-$
C	$Na \rightarrow Na^+ + e^-$	$Cl_2 + 2e^- \rightarrow 2Cl^-$
D	$Na^+ + e^- \rightarrow Na$	$2Cl^- \rightarrow Cl_2 + 2e^-$

Q8. Which statement about chemical reactions is **not** correct?

- A A higher temperature increases the rate of an endothermic reaction.
- B Chemical energy is converted into thermal energy in an endothermic reaction.
- C Temperature decreases in an endothermic reaction and there is an increase in chemical energy.
- D Temperature increases in an exothermic reaction because there is an increase in thermal energy.

Q9. Hydrogen peroxide decomposes to form water and oxygen.

Which changes in temperature and in concentration **both** reduce the rate of this reaction?

	temperature of hydrogen peroxide	concentration of hydrogen peroxide
A	decrease	decrease
B	decrease	increase
C	increase	decrease
D	increase	increase

**Q10.** In which word equation is copper reduced?

**A** anhydrous copper sulfate + water → hydrated copper sulfate

**B** copper carbonate + hydrochloric acid → copper chloride + water + carbon dioxide

**C** copper oxide + hydrogen → copper + water

**D** copper + oxygen → copper oxide

**Q11.** Acidified barium nitrate solution is added to solution X. A white precipitate forms. What is X?

**A** hydrochloric acid

**B** limewater

**C** potassium chloride

**D** sulfuric acid

**Q13.** Which element is a non-metallic solid at room temperature?

	melting point /°C	number of electrons in outer shell
<b>A</b>	-210	5
<b>B</b>	-7	7
<b>C</b>	98	1
<b>D</b>	3730	4

**Q14.** What is an alloy?

**A** a compound containing two metallic elements

**B** a compound containing two non-metallic elements

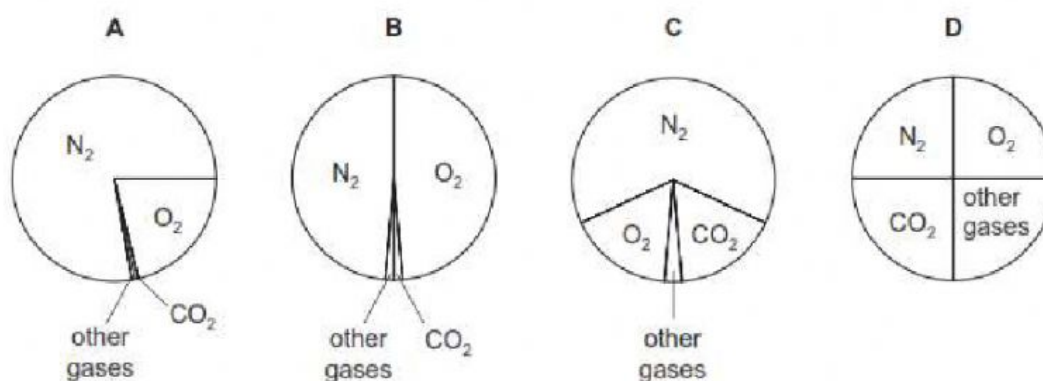
**C** a mixture containing two metallic elements

**D** a mixture containing two non-metallic elements

**Q15.** X, Y and Z are three metallic elements.  
 When Z is heated with the oxide of X, the element X is formed.  
 When X is added to a solution of  $Y^{2+}$  ions no reaction takes place.  
 What is the order of reactivity of the metals?

	least reactive	→	most reactive
<b>A</b>	X		Z
<b>B</b>	Y		Z
<b>C</b>	Y		X
<b>D</b>	Z		X

**Q16.** Which pie chart shows the proportions of gases in clean air?



**Q17.** Which statement about the products of the fractional distillation of petroleum is **not** correct?

- A** Fractions obtained from high up the fractional distillation column have low boiling points.
- B** Fractions obtained from low down the fractional distillation column contain large molecules.
- C** Large molecules have weak intermolecular attractive forces.
- D** Refinery gas is used for heating and cooking.