

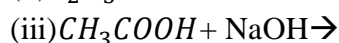
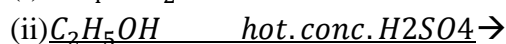
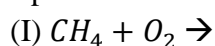
CLASS X GUESS PAPER SCIENCE

CHEMISTRY IMPORTANT QUESTIONS

Q1. What are isomerism, write two possible isomers of butane & write its IUPAC name & common name.

Q2. Define homologous series of organic compound. List two characteristics.

Q3. Complete the following equation:-



Q4. What is an esterification reaction write the chemical equation for this reaction. Write the chemical equation

of an ester with a base.

Q5. With the help of a diagram, explain cleaning action & soap.

Q6. Distinguish between esterification and saponification reaction of organic compound. With the help of diagram describe an activity to show the formation of an ester.

Q7. What is an allotropy? Compare the properties of diamond and graphite (3 points).

Q8. An organic compound "A" is widely used as a preservative in pickles and has a molecular formula $C_2H_4O_2$.

this compound reacts with ethanol to form a sweet smelling compound "B".

(i) Identify the compound "A".

(ii) Write the chemical reaction with ethanol to form compound "B".

(iii) How can we get compound "A" back from "B".

(iv) Name the process and write chemical equation.

(v) Which gas is produced when compound "A" reacts with washing soda write chemical reaction.)

Q9. Explain the given reactions with example:-

(i) Hydrogenation reaction (ii) Oxidation reaction (iii) Substitution reaction

(iv) Saponification reaction (v) combustion

Q10. Define period and group of P.T

Q11. Two elements x and y belongs group 1 and 2 respectively in the same period of periodic table compare them with respect to:-

(i) the number of V.E in their atoms. (ii) their valences. (iii) metallic character. (iv) the size of their

atoms.

(v) the formula of their oxides. (vi) the formula of their chlorides.

Q12. The atomic number of valence electrons of an element is 16 predict

- (i) The number of V.E in its atom
- (ii) Its valency
- (iii) Its group number
- (iv) whether it is a metal or non- metal
- (v) the nature of oxides formed by it
- (vi) the formula of its chloride.

Q13. Write at least 3 advantages of the modern periodic table.

Q14. Two elements with symbol x (atomic number. 11) and y (atomic number. 13) are placed in the III period

of the modern periodic table:-

- (i) which amongst the two has more metallic character.
- (ii) Calculate the valency of each element.
- (iii) Element “Y” is smaller then “x” in terms of atomic size it is

Q15. Formula part of a P.T answer the following questions.

1	2	13	14	15	16	17
Lithium			Carbon		Oxygen	Fluorine
X			P			Q
Y						R
Z						T

- (a) Which is the more reactive metal. (b) Name the family of fluorine , Q, R, T, .
- (c) Name one element each of group 2 and 15. (d) Give the name of element p placed below carbon.
- (e) Compare x and p with respect to size of atom.

Q16. State two defect of the modern periodic table.

*****X*****