

## POLITICAL SCIENCE ASSIGNMENT

1. On what basis are the states classified as Parliamentary and Presidential?
2. What do you mean by Parliamentary form of Government?
3. Define Political Homogeneity in a Parliamentary form of government.
4. What is meant by Cabinet Dictatorship? Which type of government would you associate with it?
4. Discuss any 6 characteristic features of Parliamentary form of government.

## ACCOUNTS ASSIGNMENT

MANAGEMENT ACCOUNTING- Do question 59,61,67,68,70,73,74,75,77 and 78 of chapter 4 in Accounts notebook.

## CHEMISTRY ASSIGNMENT

Nomenclature and Isomerism in Inorganic Complexes:

A. Give the structural formula of the following compounds:

1. potassium tetrafluoridoborate(III)
2. hexaamminecobalt(III) chloride
3. pentacarbonyliron(0)
4. hexacyanidoferrate(II)ion
5. diamminesilver(I)ion

B. Answer the following:

1. Write all the geometrical isomers of  $[\text{Pt}(\text{NH}_3)(\text{Br})(\text{Cl})(\text{py})]$  and how many of these will exhibit optical isomers?
2. Name the type of isomerism exhibited by the following pairs of compounds:
  - i)  $[\text{Co}(\text{ONO})(\text{NH}_3)_5]^{+2}$  and  $[\text{Co}(\text{NO}_2)(\text{NH}_3)_5]^{+2}$
  - ii)  $[\text{Cr}(\text{H}_2\text{O})_4\text{Cl}_2]\text{Cl}\cdot 2\text{H}_2\text{O}$  and  $[\text{Cr}(\text{H}_2\text{O})_5\text{Cl}]\text{Cl}_2\cdot \text{H}_2\text{O}$
  - iii)  $[\text{Co}(\text{NH}_3)_6][\text{Cr}(\text{CN})_6]$  and  $[\text{Cr}(\text{NH}_3)_6][\text{Co}(\text{CN})_6]$
3. There are two isomers  $[\text{Co}(\text{NH}_3)_5(\text{NO}_3)]\text{SO}_4$  and  $[\text{Co}(\text{NH}_3)_5(\text{SO}_4)]\text{NO}_3$  which complex will give white precipitates with barium chloride. Also write the type of isomerism.
4. Write cis and trans isomer for  $[\text{CoCl}_2(\text{en})_2]^+$ . Which one is optically active and why?