

**CHEMISTRY MODEL QUESTION PAPER**

**CHEMISTRY GENERAL**

**SEMESTER-V**

**COURSE NAME - CHEMGT-5**

**Each question carry two marks**

1. Compare between H.T.C. and L.T.C process of coal.
2. State the characteristic of an ideal fuel?
3. What is meant by gravimetric analysis?
4. What are meant by co- precipitation and post-precipitation?
5. What are primary and secondary standard solutions? Give example.
6. What is the importance of ozone layer? What chemical is most damaging to the ozone layer?

**Each question carry five marks**

1. What is BOD and COD? Why COD is higher than BOD?
2. Write the principle of complexometric titration.
3. What is meant by crucible constant? How is it determined?
4. What are causes of soil pollution? How can we prevent soil pollution?
5. What do you mean by accuracy and precision of quantitative analysis? Define systematic and random error?
6. Define cetane number and octane number and mention their significance?
7. Define Cracking and knocking. What is the difference between glass and ceramics?
8. What are the main source of biofertilizers? How is ammonia used in fertilizer? Which is the main constituent of cement?
9. What are the criteria of a chemical reaction used for volumetric estimation? Define reverse osmosis and electro dialysis?

**Each question carry ten marks**

1. Write a short note on column chromatography and thin layer chromatography.
2. Explain the term solubility product and common ion effect.
3. What is green house effect? What are the consequences of green house effect? How human can reduce the effect of Green house gases? What are causes of soil pollution?
4. What ions cause hardness in water? What causes permanent hardness in water? How can we remove permanent hardness in water? What are the main source of biofertilizers? How is ammonia used in fertilizer?