

QUESTION BANK FOR TERM TEST-1 (IA-1) 2026

Subject: APPLIED CHEMISTRY

TOPICS: FUELS AND COMBUSTION

Sr. No.	Questions	Marks
1	What are the characteristics of good fuel.	3
2	Numerical on determination of Sulphur in coal.	3
3	Explain with neat diagram determination of carbon and hydrogen by ultimate analysis.	5
4	Numerical on HCV and LCV.	4
5	Define calorific value. Write the significance of proximate analysis.	3
6	How is the percentage of Sulphur determined in solid fuels.	3
7	Numerical on combustion to find oxygen and air required by weight.	6
8	Numerical on determination of % carbon and hydrogen.	4
9	What are the advantages of gaseous fuel over liquid fuel.	3
10	Explain determination of moisture in coal and write its significance.	5
11	How proximate analysis is conducted and what is its significance in utility of coal for particular purpose.	5
12	Define fuels and give its classification.	3
13	What is the significance of ultimate analysis?	3
14	Mention the various determinations carried out in ultimate analysis with significance of each.	5
15	Numerical on proximate analysis.	3/6