

5. (a) Explain the adsorption theory of heterogenous catalysis in detail. 6
(b) Write a short note on petrol knock and octane number. 5
(c) Write a short note on pillard clay. 4
6. (a) Explain the traditional and green route for production of indigo dye 6
(b) Explain cold powder extrusion moulding. 5
(c) Write difference between anodic and cathodic coatings. 4
7. (a) Explain in detail cathodic protection methods. 6
(b) A sample of coal has the following composition C= 79%, H= 7.5%, N=2%, S= 1.5%, O= 6%. Calculate the G.C.V. and N.C.V. of coal 5
(c) What are ceramic powders? Explain the manufacture of alumina. 4
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