### 6CE4-05: ESTIMATING & COSTING

**Credit:** 2  
**Max. Marks:** 100(IA:20, ETE:80)  
**End Term Exam:** 3 Hours

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<td>1</td>
<td><strong>Introduction:</strong> Objective, scope and outcome of the course.</td>
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| 2  | Purpose and importance of estimates, principles of estimating,  
    Methods of taking out quantities of items of work. Mode of  
    measurement, measurement sheet and abstract sheet; bill of  
    quantities. | 4     |
| 3  | **Estimating:** Types of estimate, plinth area rate, cubical content rate,  
    preliminary, original, revised and supplementary estimates for  
    different projects. | 6     |
| 4  | **Rate Analysis:** Task for average artisan, various factors involved in  
    the rate of an item, material and labour requirement for various  
    trades; preparation for rates of important items of work. Current  
    schedule of rates. (C.S.R.) | 6     |
| 5  | **Detailed Estimates:** Preparing detailed estimates of various types of  
    buildings, R.C.C. works, earth work calculations for roads and  
    estimating of culverts Services for building such as water supply,  
    drainage and electrification. | 6     |
| 6  | **Valuation:** Purposes, depreciation, sinking fund, scrap value, year’s  
    purchase, gross and net income, dual rate interest, methods of  
    valuation, rent fixation of buildings. | 5     |

**TOTAL** 28