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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION, 2017

M.TECH II SEMESTER

COURSE CODE: 10M11CE213 MAX. MARKS: 35

COURSE NAME: CONSTRUCTION COST ANALYSIS

COURSE CREDITS: 03 MAX. TIME: 2 HRS

Note: *All questions are compulsory. Draw figure, sketches and give suitable example to illustrate your answers. Assume missing data suitably if required.*

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1. Describe the provisional cost and deferred cost with suitable example and explain their importance in Job Cost Report? [4]
2. What are the common problems/errors in preparation of Cost Statement and how those can be solved? [4]
3. Briefly describe Life Cycle Cost and explain its importance. [4]
4. Prepare the rate analysis for 12 mm thick cement plastering in 1:3 cement mortar. [6]
   Labor required for 100 m^2 area of plastering-
   Mason 1.2 man-days (Labor wages Rs. 350 per day)
   Mazdoor 3.6 man-days (Labor wages Rs. 250 per day)
   Material rates (including carriage and handling charges) –
   Sand - Rs. 1,200 per m^3
   Cement - Rs. 330 per bag
5. What is the importance of JCR? Draft a suitable format of the JCR and describe its different components? [7]
6. A precast concrete factory has to produce 50,000 railway sleepers per year. An economic choice has to be made between steel formwork and wooden formwork. The life of steel formwork is estimated to be six months, while that of wooden formwork is two months. The cost of preparing one set of steel mould and one set of wooden mould are Rs 200,000 and Rs 50,000 respectively. It is further estimated that the labor costs for assembling and removing the steel and wooden formwork are Rs 12 and Rs 9 per sleeper respectively. Which formwork will you choose? Justify your answer. [3]
7. Write shore notes on Accepted Cost Estimate. [3]
8. Describe different steps involved for preparing a construction schedule in primavera. [4]