DIPLOMA IN CIVIL ENGINEERING
VI - SEMESTER
QUANTITY SURVEY & VALUATION-II
(BCE-604)

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<th>Pds./Week</th>
<th>Duration of Exam.</th>
<th>Max. Marks</th>
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<td>L P</td>
<td>Hours</td>
<td>Course Work</td>
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<td>10</td>
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CONTENTS

Unit-I & II Calculation of quantities of earth work using different methods (Mean area, Mid area & Prismoidal formula) for:
- Road
- Railway embankments
- Irrigation Canals  

Unit-III Valuations:
Introduction. Purpose of valuation, Principles of valuation. Definition of various terms related to valuation like Gross Income, Net Income, Outgoings, scrap, salvage market and Book values, depreciation, sinking fund, year’s purchase (Y.P.) etc.
Methods of valuation:
- Replacement cost method
- Rental return method

Unit-IV Contract System & Mode of Payments/Bills
Introduction, Contract, Contractor, Qualities of a good contractor. Types of contracts, their advantages, disadvantages and suitability, earnest money, security deposit, Mode of Payments.
- Types of contracting firms/construction companies.
- Types of Bills

Unit-V Introduction, Tender form, Tender documents, Tender notice, submission of tender, opening of tenders, scrutiny of tenders, comparative statement of tenders, acceptance of tenders. Specimen form of letter accepting the tender. Informal tender, unbalanced tender.
Exercise on preparing tender documents for the construction of the works/project for which the quantities of items were calculated in V-Semester.
Detailed Specifications for various items associated with civil construction works.

Reference Books:
8. BIS:1200

[406x797]BOS of CES held on 04.5.2018
(Annexure-III)