

Exam.Code:0947
Sub. Code: 7117

1078
B.E. (Civil Engineering)
Fifth Semester
CIV-505: Estimating and Costing

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in **all**, including Question No. 1 which is compulsory and selecting two questions from each Unit.

X-X-X

- I. Attempt the following:-
- Define a contract as applied to Civil Engg. Works.
 - List the different methods for calculating the earthwork in **Road construction**.
 - Explain the term Temporary imprest.
 - Write the detailed specifications of first class Brickwork.
 - Why measurement books are considered very important **account records**. (5x2)

UNIT - I

- II. Write the detailed specifications for Cement Concrete, 1:2:4. (10)
- III. Prepare the analysis of rates for Pointing in Cement Mortar 1:2. Assume **suitable** rates for Labour, Materials etc. (10)
- IV. Explain different types of estimates. Write a short note on detailed **estimate**. (10)

UNIT - II

- V. A portion of the highway. (Water Bound Mecedem) is to be **metalled** with the following data. Length-1.50Km. Metalled width=6m, soling coat =**Flat brick** with brick on end edging, Wearing coat=9cm thick (consolidation) of **stone metal**. Surface to be finished off with 2 coats of tar or bitumen using 1.90Kg **binder** and .02Cu.m of bajri (2cm) per Sqm of road area. Estimate the quantities of **materials**. (10)
- VI. Draw a page of a cashbook. Explain with examples, how receipt and **payment** sides are filled. (10)
- VII. Write detailed specifications for laying D.P.C. (10)

X-X-X