MUFFAKHAMJAH COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING



BE CIVIL VII-Sem A&B Sections A.Y. 2024-25

ESTIMATION & SPECIFICATIONS

Assignment

- 1. Write in detailed about general specifications of first class and secondclass buildings.
- 2. Calculate the steel quantity of a doubly reinforced beam, length is 9m and bearing on either side is 300 mm. It is provided with top 2No. of bars 18mm Ø and bottom 4No. of bars 22mm Ø, 4No. of bars 20mm Ø with 10mm Ø @ 150mm c/c as stirrups. Width and Depth of the beam is 400mm X 750mmmm, Prepare Bar Bending Schedule.
- 3. Define BOT, BOOT and PPP projects
- 4. What do you understand by the word "MB".
- 5. Compute the unit rate for 1: 4: 8 with over burnt brick for 7.5 cm thick cement flooring. The labour requirement per cum is Head Mason 1/2no, Masons 10 no's and mazdoors 20 no's and the corresponding rate are Rs.450/-, Rs.400/-, Rs.350/-respectively. The cost of cement bag is Rs.350/- brick chips 20mm down Rs.2000/- per cum and sand Rs.1200/-cum.
- 6. Estimate the quantity of earthwork required for the following data for a road work. The standard length of chain used is 20m. The formation width of road is 9m and the side slopes in banking 2 : 1.

Chainage	14	15	16	17	18	19	20
Ground	88.1	87.54	87.60	88.24	90.75	90.25	89.90
Level							

- 7. Write about long wall and short wall method & centre line method.
- 8. Calculate unit weight of steel in Newton's, 10mmØ,12mmØ,16mmØ, 22mmØ.