

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
 TEST -2 EXAMINATION- Oct 2017
 M-Tech 1st Semester

COURSE CODE:10M11CE112

MAX. MARKS:35

COURSE NAME: Estimation and Costing

COURSE CREDITS: 4

MAX. TIME: 2 Hr

Note: All questions are compulsory. Carrying of mobile phone or sharing of materials during examinations will be treated as case of unfair means.

Q 1. Define Estimating? Method of Estimation? Explain with examples? [4 Marks]

Q 2. The formation width of a road embankment is 9.0m. The side slopes are 2.5:1. The depths along the centre line of road at 50.0m intervals are 1.2, 1.1, 1.4, 1.2, 0.9, 1.5 and 1.0.m. It is required to calculate the quantity of earthwork by

(a) Prismoidal rule.

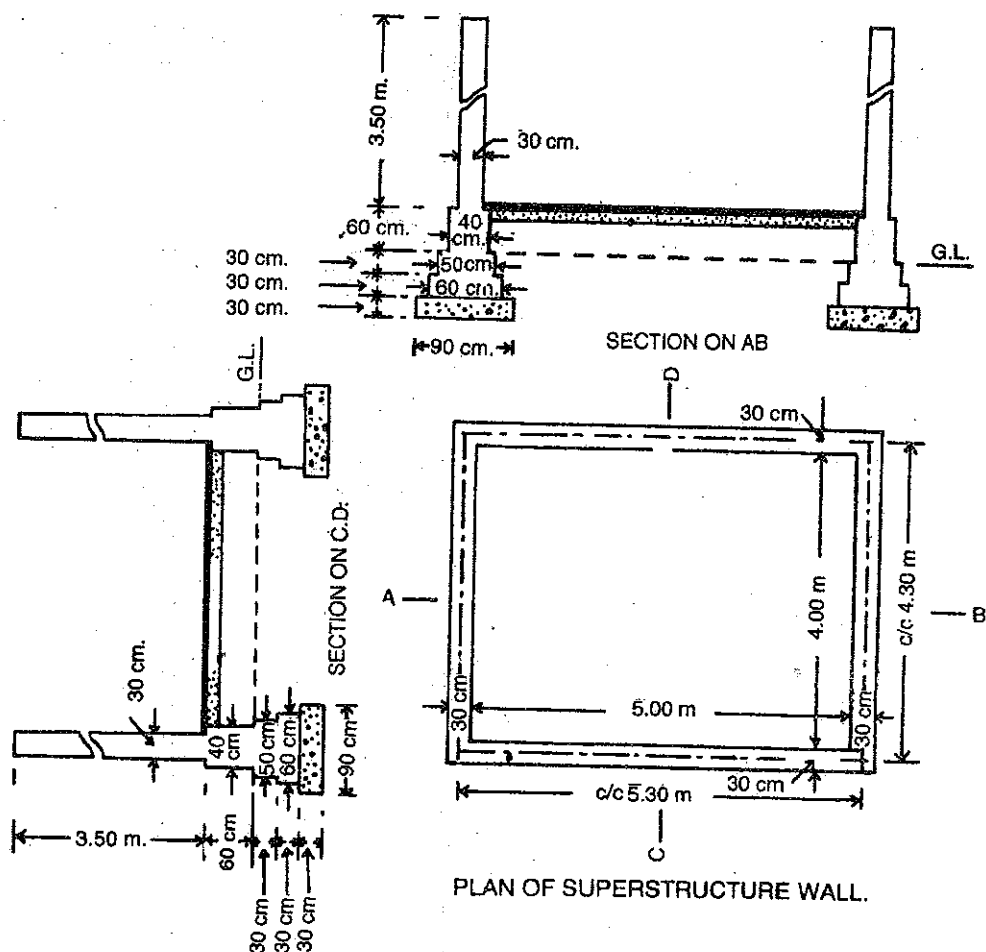
(b) Trapezoidal rule.

[3+3 = 6 Marks]

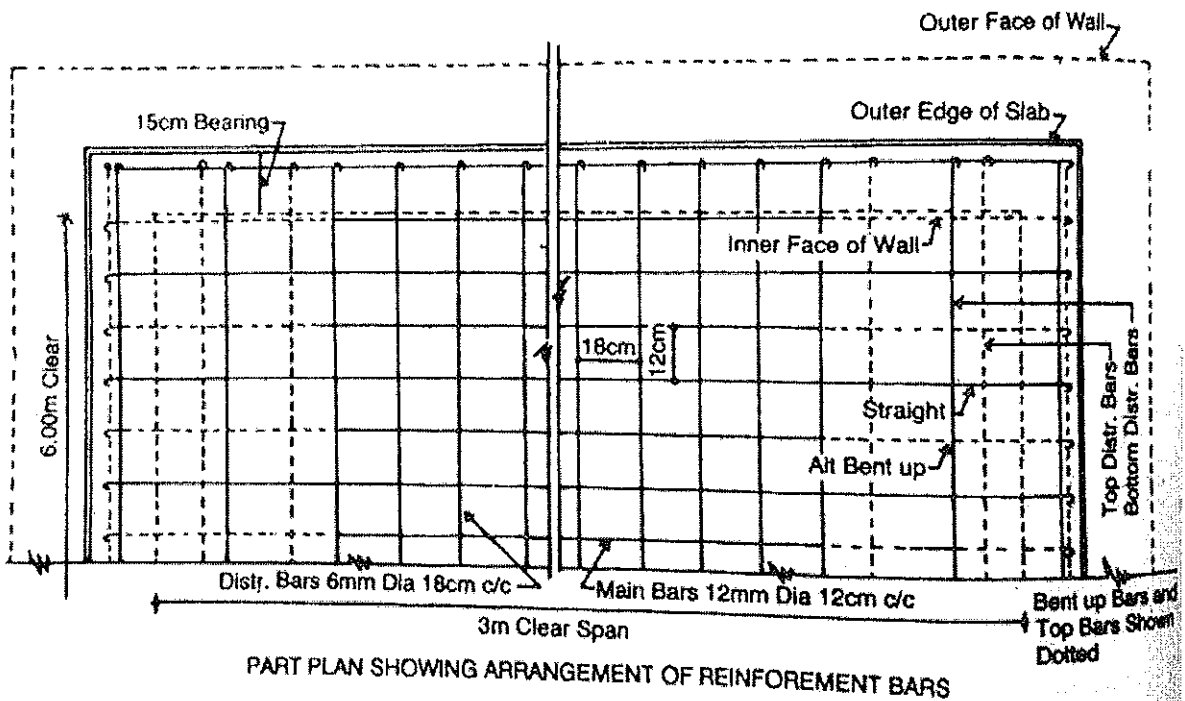
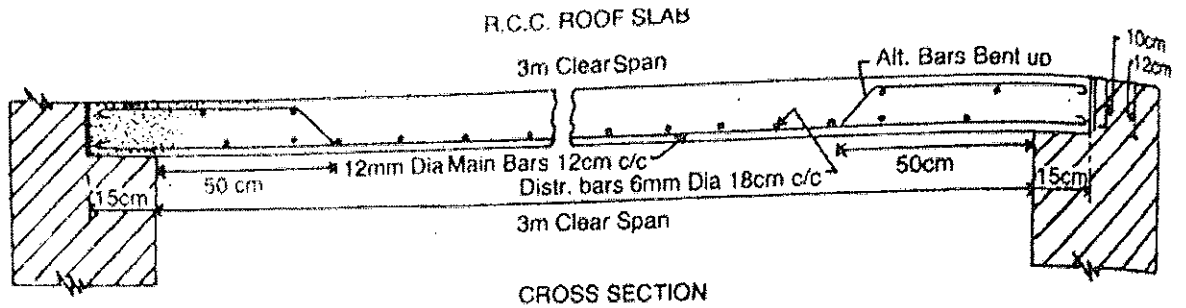
Q 3. The plan represents the plan of a superstructure wall of a single room building of 5m x 4m, and Section represent the cross section of walls with foundation. Estimate the quantities of -

- a) Earthwork in excavation in foundation b) Concrete in foundation c) brickwork in foundation and plinth d) Brickwork in superstructure

[2.5*4 = 10 Marks]



Q4. Prepare the detail estimate of R.C.C roof slab of clear span 3 metres and 6 metres long as given in the figure below. RCC work including Centering and Shuttering and steel reinforcement in detail shall be taken separately. Also Prepare a Schedule for the bars. [5+10 = 15 Marks]



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