

Estimating and Cost Evaluation-11

1 Answer

all the questions (2x5 = 10 marks) Total = 20 marks

- (a) Define culvert and bridges?
- (b) Draw the cross-section of earthwork of road in banking or in cutting.
- (c) What are the methods of measurement for the quantity of earthwork in Road.
- (d) Write the Quantity of earthwork in road in the form of trapezium section?
- (e) Define curtain walls?

2. Answer

any two question (5x2 = 10 marks)

- (a) Estimate the cost of earthwork for a portion of a road from the following data:-
Road width at the formation. Surface is 8 meters. Side slopes 2:1 in banking & $1\frac{1}{2}$:1 in cutting, length of chain is 30 meters.

chainage	20	21	22	23	24	25	26	27	28	29	30
Ground Level	71.20	71.25	70.90	71.25	70.80	70.45	70.20	70.35	69.10	69.45	69.70

formation Level 70.00 ← Upward gradient of 1 in 200 →

- (b) Calculate the quantity of earthwork for 200 metre length of a portion of a road in an uniform ground the heights of banks at the two ends being 1.00m & 1.60m. The formation width is 10 metre and side slope 2:1 by 3 method.
- (c) Prepare a detailed estimate of a slab culvert of 1.50m Span & 4.00m road way from the given drawing (fig 8.5 B.N. Datta Book Page 375)

Estimating & Cost Evaluation - II

Total marks = 20 marks
(2 x 5 = 10 marks)

1. Answer all the questions.

- (a) Define Technical section?
- (b) Calculate the standard weight of 12mm dia mild steel bar of 3m length?
- (c) What is Earnest money?
- (d) Differentiate between isolated and combined footing.
- (e) what do you mean by special repair & gradual repair.

2. Answer any two questions? (5 x 2 = 10 marks)

- (a) Write short note on Muster Roll & Acquittance Roll.
- (b) what do you mean by Tender? write a notice inviting tender for any work
- (c) calculate the quantity of footing with M20 grade concrete and also find the dry materials.

