BLACK DIAMOND SCHOOL OF ENGINEERING

CIVIL ENGINEERING DEPARTMENT

QUESTION BANK

6TH SEMESTER

SUB: ESTIMATING

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Sub - Estimating II 6th sem Civil

Answer all Questions [2x10

Q.(1) (a) What do you mean by "Depreciation" ?
(b) Define Acquitance roll ?
(c) Define Muster roll ?
(d) What do you mean by Tender ?
(e) Define Bin card ?
(f) What is deep pit ?
(g) What do you mean by Measurement book ?
(h) Define culvert ?
(i) What is earnest money ?
(j) What do you mean cash book ?

No (2) Answer any five [5x6
(a) Bincard & store ledger.
(b) Duties of Junior engineer.
(c) Labour contract & item rate contract.
(d) Earnest money and security deposit.
(e) Running Bill & final Bill.
(f) Major work & Petty work Answer any 2 [15

No (3) Prepare a detailed estimate for earthwork for a portions of a road from the following data.

Chainage	10	11	12	13	14	15	16	17	18	19	20
R.L of ground	105.0	105.6	105.4	105.9	105.42	104.30	105.00	104.10	104.02	104.00	103.8
R.L of formation	107.40										
Gradient	Down ward	1 in 150 →					← Down gradient			1 in 100	

R.L of ground along the centre line of a proposed road from chainage 10 to chainage 20 are given below. The formation level of chainage 10 is 107 and the road

is in downward gradient of 1 in 150 up to the chainage 14 and then the gradient changes to 1 in 100 downward. Formation width of road is 10mt and side slopes of banking are 2:1. Length of the chain is 30mt.

Q(4) The dimensions for a RCC slab is 4.00mt 5.00m x 12cm deep. Reinforcement of 12mm dia rods are placed in short span @ 15cm c/c of the total number of rods, 16 nos have been cranked and hooked at the ends. Other rods are straight and hooked at the ends. The 12mm dia rod weight 0.89 kg per meter. To hold the cranked portion 4 nos of 10mm dia straight and hooked rods have been used. The 10mm dia rods are placed in a direction of long span @ 20cm c/c and all are straight and ~~2.5~~ cm on all sides. The 10 mm dia rods weight 0.62 kg/m. The covers are 1.8 cm at the bottom and 2.5 cm on all sides. Assume any other dimension not given Estimate the total weight of steel required for reinforcement of the slab. [15

Q(5) Write short notes on.

(i) Contigency Budget and Earnest money

(ii) Suspense account and Subhead account. [15

(iii) Tender notice.

Sub - Estimating II 6th sem. Civil Engg

Answer all Questions ! [2×10

Q1 (a) How volume of earthwork can estimates ?
(b) Define workcharged - establishment ?
(c) Define earnest money ?
(d) Classify work ?
(e) Define Muster Roll ?
(f) Define Bill ?
(g) What is cash book ?
(h) Define "lead" and "lift" ?
(i) Differentiate between "Abutement" and "Pier" ?
(j) What do you mean by skew culvert ?

2 Answer any five [5×6

Q2 (a) Duties of junior engineer ?
(b) Major work and Petty work ?
(c) What, Organisation of engineering department and PWD account ?
(d) Administrative approval and technical sanction.
(e) Running Bill and Final Bill.
(f) Tender notice.

Q3 (3) Prepare a detailed estimate of a slab culvert of 1.5 mt span and 4mt roadway from the given drawing. The general specifications are as follows.
(i) Earthwork in Excavation [3
(ii) Cement concrete in foundation (1:3:6) [2
(iii) 1st class brick work in cement mortar (1:4) [5
(iv) Cement plastering over brickwork in cement [5

mortar (1:3)

(v) steel bars including bending in R.C.C. work [5]

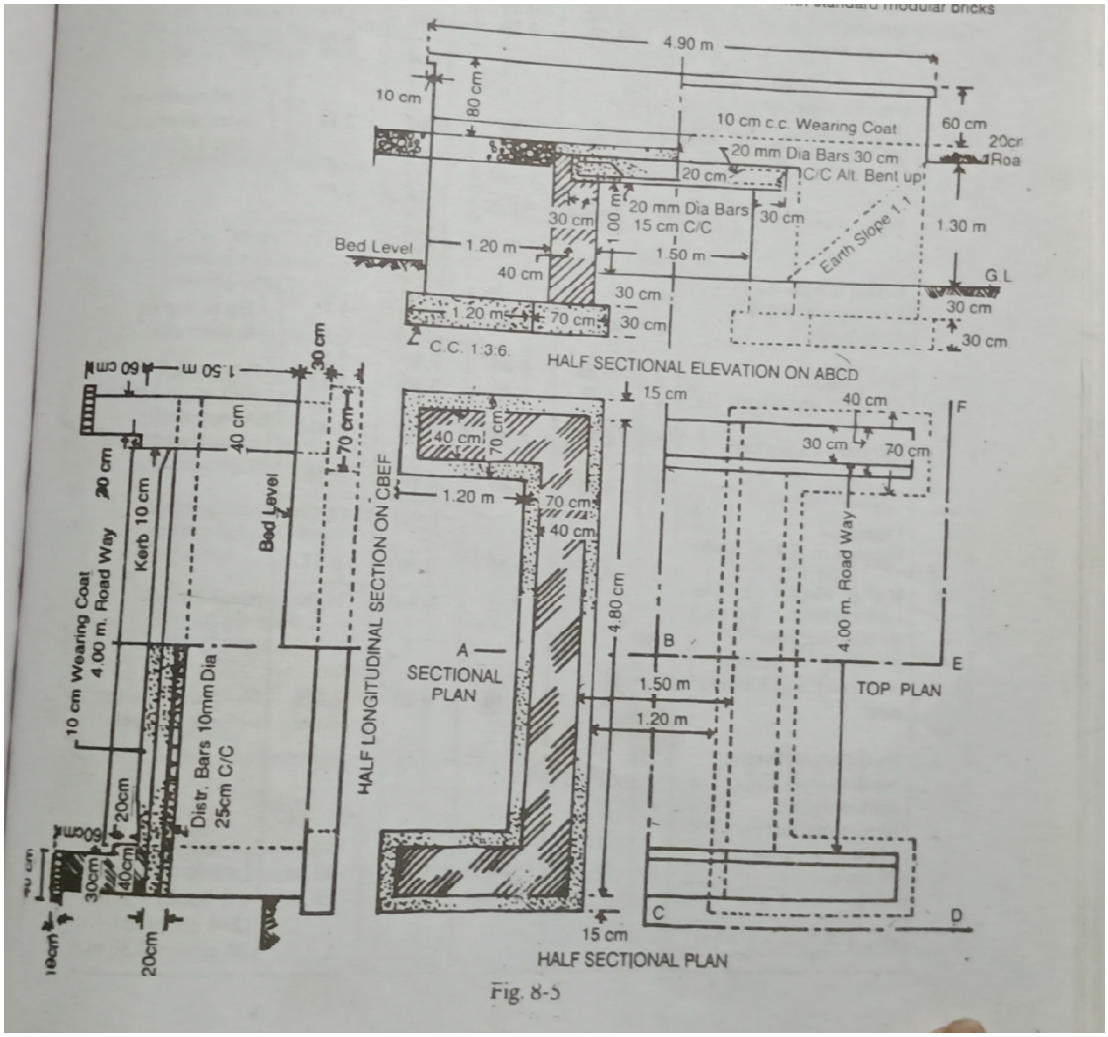

Fig. 8-5