Time 4 H	Marks: 80	
Note:		
i) ii) iii) iv)	Q.1 is compulsory Attempt any three out of remaining Five Questions. Figures to right indicates full marks. Assume Suitable data if required.	A A A A A A A A A A A A A A A A A A A
,		
a)		20
Q.2 A) E	explain the meaning of specification. Draft general specifications for fire	st class brickwork
iı	n cement mortar.	10
B) E	xplain in brief rate analysis? Prepare rate analysis for Vitrified tile floor	ring work laid on
25	5 mm thick base course in c:m 1:6.	10
Q.3 A) P	repare approximate estimate for estimate of (G+3) RCC framed building	ng with 4 flats
p p	per floor each of 100m ² carpet area. The building is situated in Mumbai	suburb region.
C	Consider the followings:	
i)	Allow 18 % building cost for services such as lift, electrical and plum	bing.
ii)	Allow 4 % overall cost for consultant's fee.	
iv)	Consider 5% contingencies.	10
B) Ex	xplain pre-qualification of contractor.	04
es	raft Notice inviting tender for construction of Primary School Building timated cost of Rs. 200 lacs time limit for work is two years. Contract were rate type and tender fee Rs. 2000/- along with document	0
Q.4 A) A	concrete mixer was purchased at Rs. 90,000/-Assuming salvage value	of Rs.10,000/-after
5	years. Calculate depreciation for each year adopting a) Straight line med	thod, b) Constant
pe	ercentage method, c) Sinking fund method.	10
B) W	That are different types of contracts. Explain any two in detail.	10

Q.5 A) Calculate volume of earthwork in cutting and in banking for the road section whose details are given below. Use mean area method:

Chainage	0	30	60	90	120	150	180	210
RL of	161.50	160.95	160.55	161.55	161.85	162.95	162.35	162.80
ground(m)		0		2	T			

Width of formation 10m. F.L. at zero chainage = 161.60m, rising gradient is 1:110. side slopes =1.5:1 in banking and 2:1 in cutting.

- B) A rectangular beam 20 cm x 30 cm, 3m overall length with tor steel bar 3 Nos. And 16mm φ. Wt. Of bar is 1.58 kg/m. Two outer bars are straight and L shaped hooks are provided at end. One inner bar bent at 45° and L shaped hooks are provided at end. At the top two outer bars are provided having 16mm φ and wt. 0.62 kg/m. These bars are straight and L shaped hooks are provided at end. Stirrups are provided at distance of 20 cm c/c with 6mm φ and wt. 0.22 kg/m. Consider 25mm cover.
- Q.6 Write short notes on (any Five).

20

- a) Easement rights.
- b) Mass Haul Diagram
- c) EMD and SD
- d) Rules for deduction in plastering work & Brickwork.
- e) Technical Sanction f) Balanced and unbalanced tender.

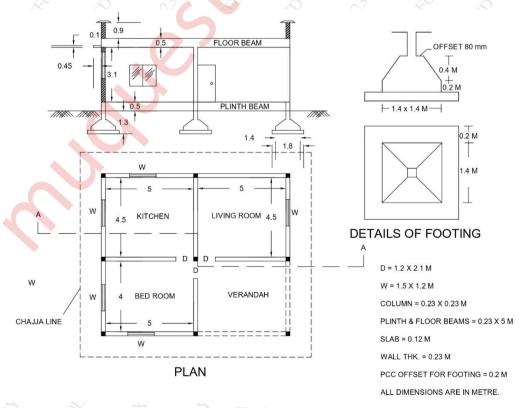


Fig.01

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