SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (SUPPLEMENTARY), JUNE - 2016

B. ARCH III YEAR VI SEMESTER

BUILDING MANAGEMENT (BM-6)

(QUANTITIES AND ESTIMATIO	NS)
	Time – 2 ½ Hours
Maximum Marks – 60	277220
Answer any <u>Two questions out of Ito 4</u> questions. Ouestion No.5 is compulsory and <u>answer any four</u> out of six sub-	auestions
Ouestion No.5 is compaisory and unswer any jour out of six sub-	questions.
Scientific Calculator is allowed. Assume Suitable data, if necessary.	
	(5M)
Q1. a) Write the requirements for preparation of an estimate.	(5M)
b) List the duties of Quantity Surveyor.	(4.0%)
c) Prepare a preliminary estimate of a house with the followin	g data.
a) Internal dimensions , : 10m x 8m	·
b) Wall Thickness 0.3m	第三次 第三次 第三次 第三次
c) Height of the house above the floor 4m d) Cubic area rate Rs. 2000/m ³	
	and the state of t
c) Trad for thate, supply	副人 ・
f) Add for Sanitary fittings : 5% of the co	1000 C
g) Add for Electrical wiring & fitting : 8% of the co	\$1.50 miles
h) Add for Contractor's profit : 14% of the c	OSI E
Q2. a) What is an approximate estimate? How is it prepared?	(5M)
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The state of the s	(5M)
line length. c) For a given stair case of width 1.2m, find the quantity of	R C C with Man grade of waist slah
c) For a given star case of width 1.2m, find the quantity of and landing of Staircase shown as in Fig. 2.0	
and fanding of Stanfoldse Shown as in 14g.2.0	(10M)
	tity of Stool required for the
Q3. a) From the simple steel truss shown in Fig.3.0, find the	e quantity of Steel required for the
following:	(4M)
a) Principal Rafter AB & AC @ 108 N/m	(4M)
b) Struts FD & EG @ 54 N/m c) Tie AD & AE @ 108 N/m	(2M)
	sed bars of the beam as shown in
	(10M)
Fig. 4.0 NOTE: Use Tor steel; Hooks are not necessary	
NOTE. Use 101 steel, 1100ks are not necessary	
Q4. Prepare a data sheet and calculate the cost of the items given	below:
a) Flooring with 25mm thick polished Shahabad Sto	one of 1 st quality of the size not (10M)
exceeding 400x400mm. laid over set in CM (1:10) 16	mm thick base $coat - 10sq.m$ (10M)
a) Materials and labour required for flooring with 25mm	n thick polished Shahabad
Stone – 10 sq.m	
10.10 sq.m	Polished Stone
0.12 Cu.m	CM (1:10)
Cu.m	Sand
Cu.m	Cement
0.96 Nos.	Mason I class
2.24 Nos.	Mason II class
2.20 Nos.	Man Mazdoor
1.10 Nos.	Woman Mazdoor
b) Painting with White Cement paint – 10 sq.m	TT 1. 0
3.5 Kg.	White Cement paint
0.15 Nos.	Mason I class
1.35 Nos.	Mason II class P.T.O
0.50 Nos.	Man Mazdoor
1.0 Nos.	Woman Mazdoor

LEAD STATEMENT

S.No	Materials	Rate at Source (Rs)	Lead in Km	Conveyance Charges (Rs)
_1	Polished Stone	1650/- per 10 sq.m	8	10/- 10 sq.m/ 1Km
2	Sand	250/- per cu.m	20	160/- for 20Km/1Cum
3	Cement	3400/- per MT	4	3/bag
4	White Cement Paint	15/- per Kg		

Labour charges:

Mason I class Rs. 190.00/day
Mason II class Rs. 180.00/day
Man Mazdoor Rs. 150.00/day
Woman Mazdoor Rs. 150.00/day
Mixing Charges for C.M Rs. 30.00/m³

- Q5. Work out the quantities for the following items of work for the Structure shown in Fig. 5.0 (4x5=20M) based on the details and data as given below:
 - a) R.C.C 1:11/2:3 in Columns up to Slab
 - b) R.C.C 1:11/2:3 in Plinth Beams
 - c) PCC Bed in Foundation
 - d) Brick work without deductions including Parapet
 - e) Outside Plastering with CM (1:4) only
 - f) Flooring with vitrified tiles in all rooms