AG AG AG AG AG A

Code No:157BM

Time: 3 Hours

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech IV Year I Semester Examinations, February/March - 2022 ESTIMATION, COSTING AND PROJECT MANAGEMENT

(Civil Engineering)

Max. Marks: 75

Answer any five questions All questions carry equal marks

Prepare the approximate cost of building project (group Houseing)

a) No. of houses = 150 b) Plinth area of each dwelling = 600m²

c) Plinth area rate = Rs. $5,000/\text{-per m}^2$

d) Cost of water supply & sanitary arrangements @121/2%

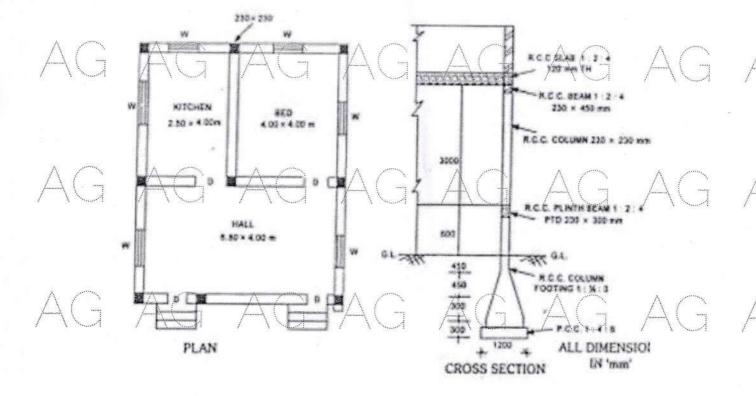
e)Electrification at 71/2% of cost of builing.

f) Cost of roads & Lawns @5%

g) Cost of P.S.& contingencies @4%.

[15]

Repare the detailed estimate for the following items of work for the building shown in figure. a) R.C.C. (1:1.5:3) in columns upto ground level only. b) R.C.C. (1:2:4) in plinth Bleams.



AG AG AG AG AG AG AG

3.											
100000000000000000000000000000000000000	Calculate	the volum	e of eart	th work	for part o	of a road	from the	followin	g data:	[15]	
	$\Delta \Delta \Delta$	\triangle				^		\triangle		Á	1000
Chain in mts	3	630 /	∖660	690/	720	750/-	780	810/	840	870	900
RL in mts	61.20	61.25	60.90	61.25	60.80	60.45	60.20	60.35	59.10	59.45	59.7
FL in	mts 60.00	← Upwa	ırd gradi	ent 1 in	200 →						
		60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	61.50
∖ (A RCC be diameter 1 175mm c/s	2mm @ to	op, 4No.	of diam	neter 20r	nm @ bo	ottom, st	irrups 2L	diamete	No.øf r 8mm ([15]	
5.	Calculate ta) C.M. (1	he quantit	y of mat	terials fo	or the foll	lowing it	tems.				
$\setminus \bigcirc_{\overline{e}}$.	b) CM (1;6 Calculate t a) C.C. (1:	6) for 1m ³ he quantit 4:8) usy 4	of work y of Cer Omm HI	nent req	ls for 30	m ³ of wo	ork				C
	b) RR mas	anry in CN	M(1:5) v	ery 0.34	m ³ of CN	A for 1m	of mas	anry for 2	20m of w	ork.[7+	8]
7.	Explain the	e terms a)	Admin	istrative	Approv	al b) Te	chnical s	sanction	c) Budge	t provis	sion
James V	d) Expendi	ture sanct	ion.	Λ	,	Λ	general and	٨	,	[15]	and the same of th
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	An equipm	ent that w	as purel	haced at	a cost o	$f P e^{\frac{1}{20}}$	lalcha ai		(\cdot, \cdot)	,	
	replacemen	it. The ex	isting ed	nasçu at nuinment	t can be	sold at a	a price o	x years a f Rs 5 ls	ge is con	if kent	for
	another six	years will	have sa	ılvage va	alue of R	s. 1 lakh	. The cha	allenger h	nas annua	al operat	ing
	cost of Rs.	50000/-	and its	salvage	value is	Rs. 5 la	akhs at t	he end o	f 12 yea	rs. Rate	of
	interest is 1	0%. Decid	de wheth	ner to co	ntinue se	ervices o	f existing	g equipm	ent or rep		
James N.	A /**	Λ	1000m	Λ	1	Λ	ger annua .	Λ	and the same of th	[15] ^	and the same of th
(7	$A(\tau)$	\wedge		-	\langle	-	\mathcal{N}	$/\!\!\perp$		Δ	(-
Marcell &	y / "	£ 3	***************************************	-	-00O00-	/	I many	/ \	``	/)	. ``~
/**\	A	٨		٨		٨		٨		٨	<i></i>
G	AG	Д		Д		Д		Δ		Δ	
G	AG	A	G	A	G	A	G	A	G	A	G
G	AG	A	G	A	C	A	G	A	G	A	Q
G	AG	A	G	A	G	\triangle	G	A	G	A	G
G	AG	A	G	A		A	G	A	Q	A	
	AG AG										