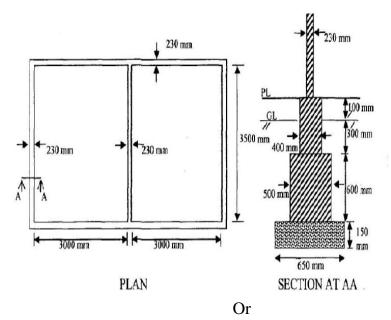
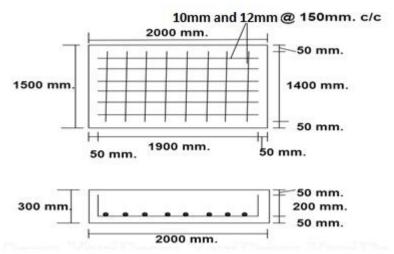
		Reg. No.:											
		Question Pap	per	Coc	de:	9530	02]					
	B.E./B.Tech. DEGREE EXAMINATION, NOV 2024												
		Sevent	h Se	mest	er								
		Civil E	Engir	neerii	ng								
		19UCE702 – Es	stima	ating	& C	ostin	ıg						
		(Regul	atior	1 201	9)								
Dur	ation: Three hours]	Maxi	imun	n: 10	00 M	arks
		Answer A	LL	Ques	tions	S							
		PART A - (20	0 x 1	= 20) Ma	rks)							
1.	1. The Useful part of livable area of the building is known as							C	O1- U				
	(a) Floor Area	(b) Circulation Are	a	(a)]	Floo	r Are	ea		(b) Cir	cula	tion A	Area
2.	Due to change in price estimate exceeds	ce level, a revised e	stim	ate is	s pre	epare	d if 1	the s	anct	ione	d	C	:O1- U
	(a) 2%	(b) 2.5%		(c)	4%				(d)	5%			
3.	The main factor to be	considered while pre	epari	ng a	deta	iled e	estim	ate i	S			C	:01- U
	(a) Quantity of material(c) Transportation of materials			(b) Location of site and local labor charge									
				(d) All of these									
4.	. Which of the following is not included in the covered area?					C	O1- U						
	(a) Rooms	(b) Roof Slab	(c	e) Wa	alls				(d)) Coı	mpoi	and v	vall
5.	The concrete work for measured in square measured	~ ~	t of	the	build	ling	speci	ified	thic	knes	s is	C	O1- U
	(a) roof slab	(b) floors		(c) v	vall p	panel	S		(d)	all th	ne ab	ove	
6.	Referring of given fig	ure, pick up the corre	ect s	taten	nent	from	the f	ollo	wing	;:		C	01- U
	6.80 m												
	(a) The total length of	centre line is 23.2 m	l	(b) L	engt	h of	long	wall	out-	-to-o	ut is	8.80	m
	(c) Length of short walls in-to-in is 5.20 m (d) The total length of centr					centr	e lin	e is 2	21.2 1	m			

7.	Calculate the number of cement bags required for 2500 kg of cement.							
	(a) 50	(b)100	(c) 500	(d) 200				
8.	The unit of payment of	of cement concre	ete in lintels is	_	CO1- U			
	(a) Per sqm	(b) Per cum	(c) Quintal	(d) Kilogr	ams			
9.	The rates of materials	used for govern	nment works are approve	d by	CO1- U			
	(a) Executive Board (b) SDO (c) Elective Boardd (d) Board of Chief							
10.	Which of the following is not a classification of labour?							
	(a) Skilled first class (b) Skilled second class							
	(c) Skilled second class (d) Unskilled fourth class							
11.	Schedule of Rates are formulated by							
	(a) PWD	(b) CPWD	(c) NHAI	(d) HD				
12.	Calculate the number of cement bags required for RCC (1:2:4) for 15 m ³ of CO1 work.							
	(a) 24.6	(b) 38.9	(c) 56.7	(d) 93.8				
13.	The plinth area of a building does not include							
	(a) Area of the walls at the floor level							
	(b) Internal shaft for sanitary installations up to 2 sq m. in area							
	(c) Lift and wall including landing							
	(d) Area of the cantilevered porch							
14.	Brick walls are measured in sq. m if the thickness of the wall is							
	(a) 10 cm	(b) 15 cm	(c) 20 cm	(d) None	of these			
15.	The main factor to be considered while preparing a detailed estimate, is CO1-1							
	(a) Quantity of the ma	nterials	(b) Availability	(b) Availability of materials				
	(c) Transportation of materials (d) All the above							
16.	The brickwork is not measured in cum in case of							
	(a) One or more than	one brick wall	(b) Brickwork	(b) Brickwork in arches				
	(c) Reinforced brickwork (d) Half brick wall							
17.	The diameter of longitudinal bars of a column should never be less than							
	(a) 6 mm	(b) 8 mm	(c) 10mm		(d) 12 mm			

18.	For initial estimate for a beam design, the width is assumed								
	(a) 1	1/15th of span	(b) 1/10th of span	(c) 1/20th of span	(d) 1/	30th of spar	1		
19.	The rate of an item of work depends on						CO1- U		
	(a) Specifications of works			(b) Specifications of materials					
	(c) Proportion of mortar			(d) All the above					
20	Pick up the incorrect statement from the following:						CO1- U		
	(a) Dimensions are measured to the nearest 0.01m								
	(b) Areas are measured to the nearest 0.01 m2.								
	(c) Cubic contents are measured to the nearest 0.1 m3.								
	(d) Weights are measured to the nearest 0.001T.								
	\ <i>/</i>	C		4 x 20= 80 Marks)					
21.	(a)	Briefly explain to one is preferred.	the different types of es	stimates discussing whe	n each	CO1-U	(20)		
		•	Or						
	(b)	Explain the me building.	ethods used to find t	the approximate cost	of the	CO1-U	(20)		
22.	(a)	Formulate scheowith 45% of hik	e in prices.	by interrupting SOR of	f 2015	CO5-Ana	(20)		
	(b)		Or ct to build a new be and estimates for require	oridge with all the re ired plan.	quired	CO5-Ana	(20)		
23.	(a)		ctional elevation of the timate quantities for the	building are given in Fi e given 2 cases	ig	CO4-Ana	(20)		
		(ii)Concrete for Case 2:	t Concrete for Foundation roof slab(thickness of the Concrete for Foundation to Concrete for Foundatio	slab = 100 mm (M20)					
			roof slab(thickness of	· · · · · · · · · · · · · · · · · · ·					



(b) Compare the Quantity of steel for BBS of a Footing given with CO4-Ana (20) 10mm dia and 12mm dia bars as main reinforcement.



24. (a) Explain the procedure and purpose of Rate Analysis with an ongoing project.

Or

(b) Explain the difference between tender and contract and also write CO1-U down the procedure to formulate a tender and its proceedings.

(20)