Total No. of Questions: 12]	SEAT No.:
P2122	[Total No. of Pages : 5
[525	4]-515
B.E.	(Civil)
	CONTRA CTC A TENDEDO

QUANTITY SURVEYING, CONTRACTS & TENDERS (2012 **Pattern**) *Time* : 2½ *Hours*] IMax. Marks: 70 Instructions to the candidates: Answer Q.No. 1 or 2, 3 or 4, 5 or 6, 7 or 8, 9 or 10, 11 or 12. 1) 2) Neat diagram should be drawn wherever necessary. 3) Figures to right indicate full marks. Use of electronic pocket calculator is allowed. 4) 5) Assume suitable data, if necessary. Define estimate & what are the methods of estimate? **Q1**) a) [3] b) Differentiate between estimate and quantity surveying. [3] OR **Q2)** a) State the unit of measurement for the following: [3] Brick masonry in super structure in cm 1:6 i) RCC (1:2:4) for beam and lintel ii) Plastering (internal & external) b) Write detailed note on DSR. [3] Briefly explain about preliminary Estimate, and how does it differ from **Q3**) a) detailed estimate. [3] Enlist various method of preliminary Estimate and explain any one b) method. [3]

OR

Q4)	a)	Explain the need for work charge establishment and contingency.	[3]
	b)	What is an item of work? Explain the deductions for brickwork in sustructure.	per [3]
Q5)	Wor	k out the quantity for the following item of work from fig. 1 & 2	
	a)	PCC (1:4:8) for foundation	[4]
	b)	Footing in stone masonry for substructure any III footing.	[4]
		OR	
Q6)	Wor	k out the quantity for the following item of work, from fig.1 & 2	
	a)	Brick masonry in super structure in CM 1:6	[4]
	b)	RCC work in beam and lintel and quantity of steel	[4]
Q7)	a)	What are the basic cost and indirect cost involved in the analysis various item rates of a building.	s of [6]
	b)	Explain open, restricted and closed specification with necessary examp	les. [6]
	c)	What is specification and how does the specification of material a item of work differ.	and [6]
		OR	
Q8)	a)	Prepare a detailed specification for Brick masonry in super structure	.[6]
	b)	What are the factors which affect the rate of an item of work. Explain affect of lead on the rate an item of work.	the [6]
	c)	Prepare the rate analysis for the following item of work (any one)	[6]
		i) 12 mm thick internal plastering	
		ii) Earthwork excavation for foundation	

The following rates for material & labour may be considered for	rate
analysis.	
i) Cement = Rs. $300/bag$,	

- ii) Sand = Rs. $1400/m^3$
- iii) Aggregate = $Rs.1400/m^3$
- iv) Bricks = Rs. 4500/1000No
- v) Steel = Rs. 38,500/MT

Labour rates/day

- i) Head mason = Rs. 600/-
- ii) Mason = Rs. 450/-
- iii) Mazdoor = Rs. 300/-
- iv) Helper = Rs. 350/-
- **Q9)** a) What is a tender notice? What informations should a contract document contain? [6]
 - b) Explain the unbalanced tender and ring contract in detail. [6]
 - c) Explain the following with examples [4]
 - i) Distress value and
 - ii) Depreciation

OR

- **Q10)** a) Explain in detail the process of administrative approval and technical sanction in PWD for execution of any work. [6]
 - b) What are the different establishments in PWD. Explain briefly regular establishment in PWD. [4]
 - c) What is comparative statement, its use and how is it prepared. [6]

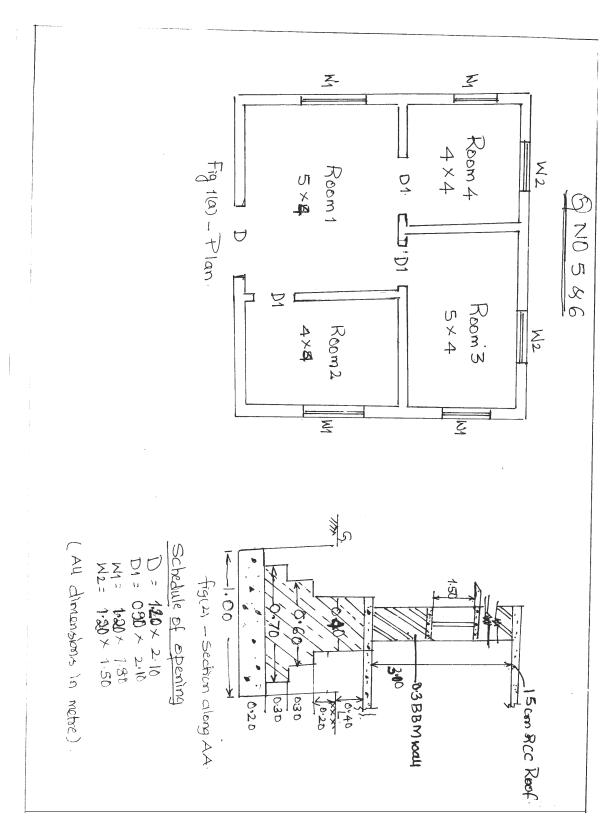
- **Q11)** a) What are the different types of contracts? Explain them briefly. [4]
 - b) Explain the role of Arbitrator in Civil engineering works. Explain how an arbitrator can be appointed and his powers. [6]
 - c) Explain the important legal implications of a contract and explain the conditions under which a contract can be terminated. [6]

OR

Q12) a) Prepare a tender document for construction of office building. The cost of building may be taken as 1.5 crore. The building is to be completed in 24 months including monsoon period.[8]

[8]

- b) Explain briefly any two of the following:
 - i) Dispute Resolution board.
 - ii) Prequalification for tenders.
 - iii) Voidable contract.



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