		Roll No	
	JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY	Y, WAKNAGHAT	
	TEST -3 EXAMINATION, 2017		
	M.TECH II SEMESTER		
COU	MAX. MARKS: 35		
COURSE NAME: CONSTRUCTION CONTRACTS AND LAWS			
COURSE CREDITS: 03 MAX. TIME: 2 HRS			
Note:	All questions are compulsory. Draw figure, sketches and	give suitable example to	
illustr	ate your answers. Assume missing data suitably if required. Sta	ndard normal distribution	
table .	signed by the course coordinator is allowed in the examination.	And the state of t	
1.	Briefly describe the price escalation clause in a CPWD contra	act taking care of material	
	price escalation, labor wage escalation and fuel price escalation	-	
2.	Write short notes on	[4]	
	(i) Pre bid meeting (ii) Performance Guarantee		
3.	Differentiate between Conciliation and Arbitration process.	[3]	
4.	4. For a construction project, the contractor has estimated direct cost of civil, electrical and		
	mechanical items is Rs 3000 lakh. The contractor has further estimated his overheads to		
	be Rs 300 lakh. The contractor has also estimated the likely e	escalation in cost over the	
	total duration of the project. The escalation is estimated to be R	s 50 lakh. If the contractor	
	desires to operate at 15 percent mark- up on his bid price, what	would be the bid price of	
	the contractor given that the liability of contractor towards w	ork contract tax is Rs 80	
	lakh? However the contractor does not want to earn his profit or	n work contract tax. [3]	
5.	Briefly describe five salient features of FIDIC form of contract.	[5]	
6.	What are the criteria that ensure validity of a contract?	[3]	
7.	What are the criteria that ensure validity of a contract? Contractor X is developing his bidding strategy against com	petitor Y. The following	

table shows the details of B/TC ratio for the 10 previous in which Contractor X has

competed against contractor Y. (B/TC ratio indicates $\frac{Y's \ bid \ price}{X's \ total \ cost}$)

[13]

B/TC	Number of bids
1.04	2
1.08	4
1.12	1
1.16	2
1.20	1

- i. Based on the bidding behavior, what is the markup value that this competitors uses on average? What is the probability of winning against this competitor Y if contractor X uses a markup of 14 percent?
- ii. In a new project with an estimated cost of Rs 50,000,000 what is your optimum markup strategy against four typical competitors using Friedman's model? What is the expected markup amount at optimal mark up?
- iii. In the same project what is your optimum markup strategy against four typical competitors using Gate's model? What is the expected markup amount at optimal mark up?
- iv. What would be your suggested markup level?