R16 Code No: 137CN JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, December - 2019 ESTIMATION, QUANTITY SURVEYING AND VALUATION (Civil Engineering) Max.Marks: 75 Time: 3 Hours Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. Explain about items of work (i) Earthwork and (ii) Damp proof course. [2] 1.a) [3] What is an approximate estimate? Write its limitations b) [2] Explain about trapezoidal rule? c) Explain about partially cutting and partially filling and also their Area calculation in d) [3] earthwork estimation? Draw the figure? What do you mean by RMC and how many cum it contains? [2] e) Describe the procedure for the calculation of rate per unit cum of RR stone masonry in f) foundation and plinth [2] Draw the figure of cranked bar. g) Define conditions of contract and mention their object and importance. [3] h) [2] What are the main purposes of valuation? List out the methods? i)

Write shorts notes on Book value and Monopoly value. [3] j) PART-B

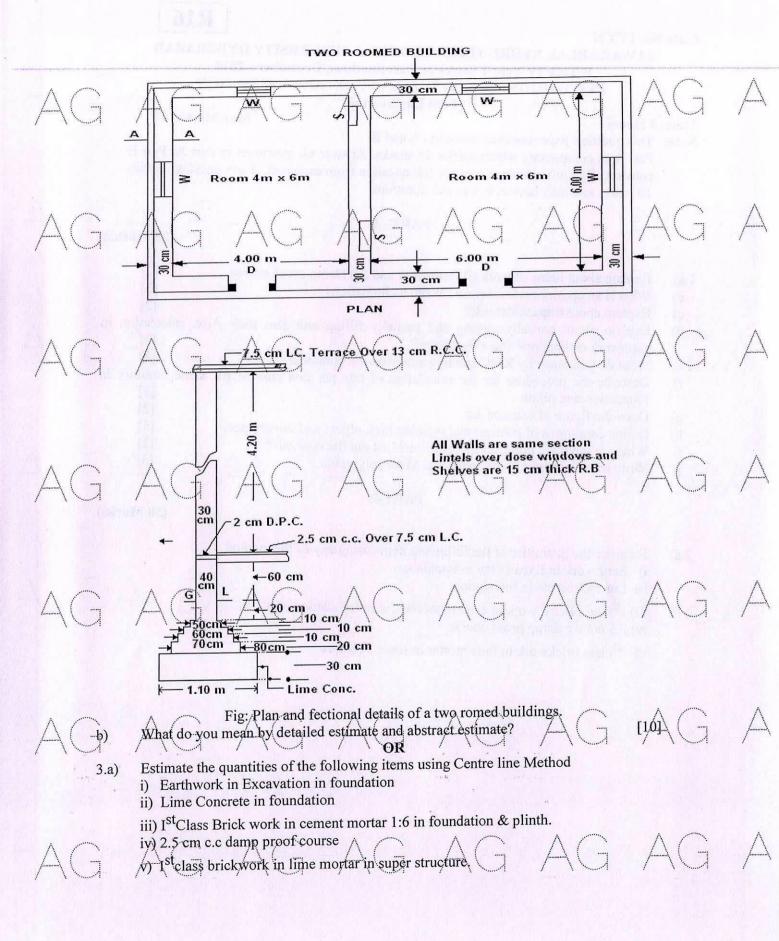
(50 Marks)

Estimate the quantities of the following items using any of the method 2.a) i) Earthwork in Excavation in foundation

ii) Lime Concrete in foundation iii) ISI Class Brick work in cement mortar 1.6 in foundation & plinth. iv) 2.5 cm c.c damp proof course

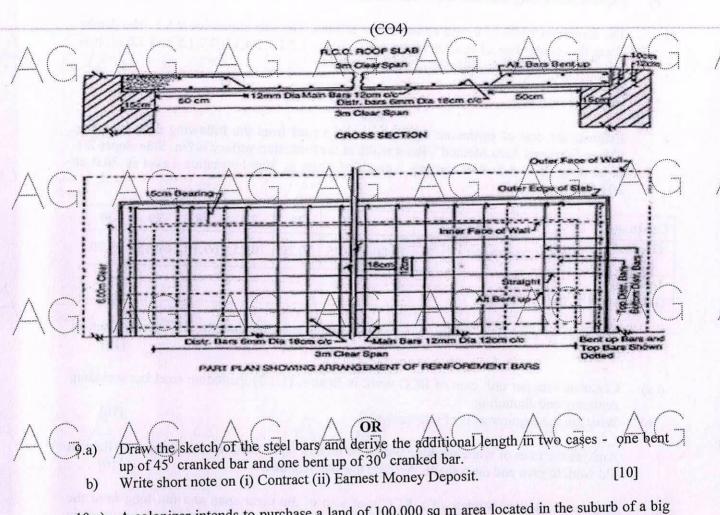
v) Istclass brickwork in lime mortar in super structure.

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b)	Expla	ain abo	out long	wall and	d short v	wall met	hod.					[10]	
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A colonizer intends to purchase a land of 100,000 sq m area located in the suburb of a big 10.a) city to develop it into plots of 700 sq.m each after providing necessary roads and parks and other amenities. The current sale price of small plots in the Neighborhood is Rs 25.00 persq.m. The colonizer wants a net profit of 25%. Work out the maximum price of the land at which the colonizer may purchase the land. [10]

Explain any one method of valuation of buildings.

Differentiate between the following 11.a)

i) Drawings and specifications

ii) Brief specifications and detailed specifications

List and explain standard specifications of a first class building.

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