JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION, 2016

B.TECH VIII/ M.TECH II SEMESTER

COURSE CODE: 10M11CE211   MAX. MARKS: 25

COURSE NAME: CONSTRUCTION CONTRACTS AND LAWS

COURSE CREDITS: 03   MAX. TIME: 1.5 HR

Note: All questions are compulsory. Draw figure, sketches and give suitable example to illustrate your answers. Assume missing data suitably if required. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. Draft a suitable Notice Inviting Tender for the construction of a five storied building?   3

2. Differentiate between front loading and back loading of markup and their significance in construction project?   3

3. Prepare the analysis of rates for one brick thick (200 mm thick) wall in 1:4 cement mortar with the following information – (brick size with mortar 200 mm x 100 mm x 100 mm and brick size without mortar 190 mm x 90 mm x 90 mm)   5

   Labor required for 1 m^3 of brickwork - Mason 0.9 man-days (wages Rs. 350 per day)
                                 Mazdoor 2.7 man-days (wages Rs. 250 per day)

   Material rates (including carriage and handling charges) –

   Bricks - Rs. 5,500 per thousand nos.

   Sand - Rs. 1,200 per m^3

   Cement - Rs. 330 per bag

4. Define contingency and allowances in the context of bid price?   3

5. Explain the importance of site visit and investigation in the bidding process from contractor's perspective?   2

6. When a person is said to be of sound mind for making of contract?   2

7. 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 escalation in cost over the total duration of the project. The escalation is estimated to be Rs 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 work contract tax is Rs 80 lakh? However the contractor does not want to earn his profit on work contract tax.   3

8. What type of contract will be suitable for the following two conditions? Justify the answer.
   (i) When sufficient time is not available for detail workout of items involved in a project
   (ii) Projects involving a combination of civil, electrical and mechanical work   2

9. For a building project, the estimated total cost of a contractor is Rs 20,000. Calculate mark up (in terms of percent) for the following two cases if the bid price to be Rs 25,000:   2
   (i) Mark up in terms of percent of total cost (ii) Mark up in terms of percent of bid price