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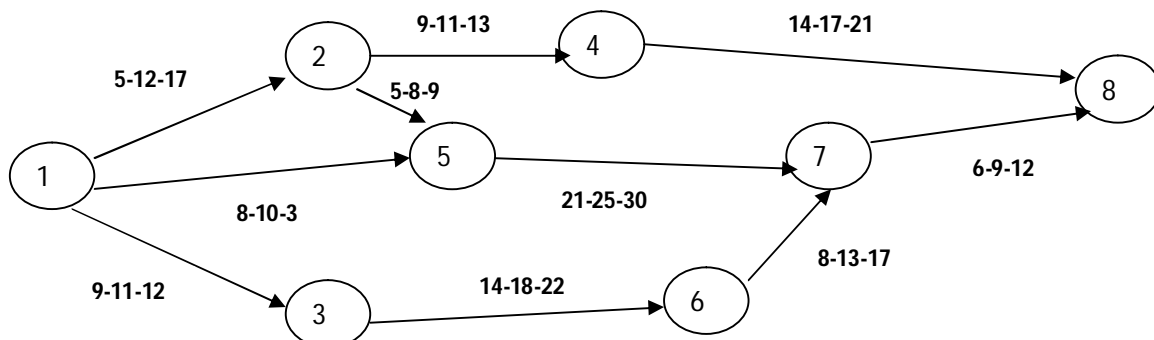
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B.TECH
PECI 5408

8th Semester Regular / Back Examination 2016-17
CONSTRUCTION EQUIPMENTS, PLANNING AND MANAGEMENT
BRANCH: CIVIL
Time: 3 Hours
Max Marks: 70
Q.CODE: Z147

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

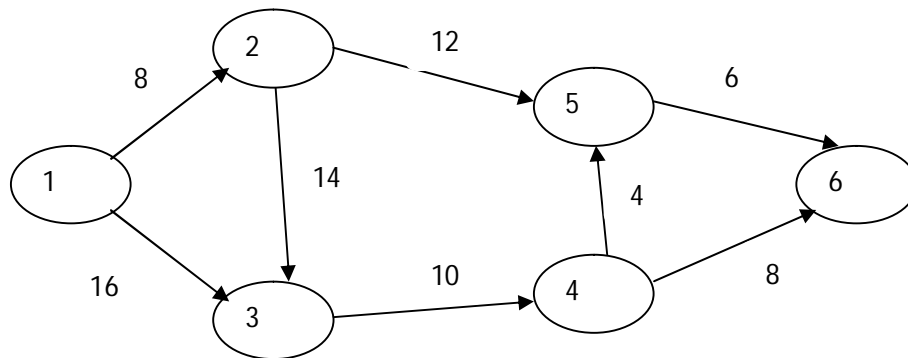
- Q1** Answer the following questions: **(2 x 10)**
- a) What are all the various forms of earth movers?
 - b) What are all the compacting equipments?
 - c) What are all the operations conducted with the help of scrapers?
 - d) Draw the sketch of fixed mast tower crane and show its different parts.
 - e) What is the significance of critical path?
 - f) What is quality assurance?
 - g) What do you mean by ownership cost and operating cost?
 - h) What do you mean by Notice inviting tender?
 - i) What is unit rate contract?
 - j) What are the powers of an arbitrator?
- Q2** With appropriate diagrams, describe the working and applications of any excavating equipment. **(10)**
- Q3** Why are cranes used? What are different types of cranes? Describe. **(10)**
- Q4** In the network shown below, the three time estimates for each of the activities are indicated. Calculate the variance and the expected time for each activity. Enter the values in a tabular form **(10)**



Q5 For the below network find :

a) Critical Path, Total completion time (in Days) (5)

b) Total float, Free float (5)



Q6 a) What is tender form? Discuss about all the steps in evaluation of a tender. (6)

b) What is labour contract? Write its advantages and disadvantages. (4)

Q7 What do you mean by Arbitration? What should be the qualification of an arbitrator? How a disputes solved by arbitration? (10)

Q8 Write Short Notes (Any Two) (5 x 2)

a) Pile driving equipments

b) Earth movers

c) Safety in construction

d) Percentage rate contract