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Total Number of Pages : 01

B.Tech
PECI5408

8th Semester Back Examination 2018-19
CONSTRUCTION EQUIPMENTS, PLANNING AND MANAGEMENT
BRANCH : CIVIL
Time : 3 Hours
Max Marks : 70
Q.CODE : F008

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) State three common tower crane configurations.
 - b) Name the different types of compaction equipments.
 - c) List out different grouting equipments.
 - d) Define equipment owning cost.
 - e) Define blasting and explain its function.
 - f) Explain earnest money deposit and security deposit.
 - g) Differentiate between float and slack.
 - h) Write about minimum wages act.
 - i) What are the merits and demerits of labour contract.
 - j) Define cost slope.
- Q2**
- a) Discuss important components of centrifugal pump. (5)
 - b) Describe belt conveyor. State its advantages. (5)
- Q3**
- a) Compare the working of single setting and double acting pile driving hammers. (5)
 - b) Describe bidding phase in construction management. (5)
- Q4**
- a) Write the difference between PERT and CPM. (5)
 - b) Describe three time estimation in PERT. (5)
- Q5**
- a) Distinguish between lump sum contract and unit rate contract. (5)
 - b) Describe about the basic elements of a valid contract. (5)
- Q6** Describe about the types of earthwork equipment. Also list the information needed to select the proper equipment. (10)
- Q7** Draw a PERT network for the followings and find expected mean time, variance and standard deviation of the project. (10)

Activity	Three time Estimates (days)
1-2	6-9-18
1-3	5-8-17
2-4	4-7-22
2-5	4-7-10
3-4	4-7-16
3-5	2-5-8
4-5	4-10-22

- Q8 Write short answer on any TWO : (5 x 2)**
- a) Deepwell pump
 - b) Safety measures in construction work
 - c) Work motion study