Total No. of Pages: 2

Seat No.

B.E. (Civil) (Semester-VII) (Revised) Examination, May - 2017 PROJECT MANAGEMENT AND CONSTRUCTION EQUIPMENT

Sub. Code: 67561

Day and Date: Thursday, 18-05-2017

Total Marks: 100

Time: 2.00 p.m. to 5.00 p.m.

Instructions:

- 1) Attempt any THREE questions from each section.
- Figures to the right indicate full marks.

SECTION-I

Q1) a) Explain 'Network Compression' step-by-step.

[8]

b) A network consists of the following activities and their durations of a small project. Draw the network, mark critical path and calculate T.F. and F.F.

Activity	1-2	2-3	2-4	3-6	3-7	4-5	4-6	5-7	6-7
Duration in weeks	2	4	5	6	5	4	1	3	2

- Q2) a) What is the 'Concept of Probability' in P.E.R.T.? Explain the three time-estimates used in P.E.R.T. [8]
 - b) How P.E.R.T. is different than C.P.M.?

Following data pertains to a project. Draw the PERT network and calculate the value of standard deviation for the critical path. [9]

Activity	Optimistic time	Most likely time	Pessimistic time
1-2	6 toplong o	птош 9 мар mi втохо	18
1-3	5	8	b) Claffhell
2-4	4	7	22
2-5	4	saire 7 web to mate	10
3-4	4 100100	nteno 7 ni nia bassan	16
3-5	2	5	8
4-5	4	10	22

		5	SL-257			
Q3) a)	Enlist the causes of accidents in construction i	ndustry.	[8]			
b)	Define 'Risk Management'. Explain the steps	of 'Risk Mitigat	ion'. [9]			
	Civil) (Samester-VII) (Reflact)	B.E. (C	-			
Q4) W	rite notes on any FOUR.	B (L)	[16]			
a)	Objectives of Project Management	AM TONIC) FIR			
b)	Floats					
c)	W.B.S.					
d)	Safety Hammig					
e)						
	SECTION-II					
Q5) a)	Explain the factors governing the selection of co	onstruction equip	oment.[8]			
b)	O D a) Diobin Nework Compression Men-by-Men					
H T et						
Q6) a)	Explain the necessity of compactors in cons	struction projec	ts. Enlist			
	various compacting equipment and explain any	ONE in detail wi				
1.		D. Jon in wes	[8]			
b)	Explain construction and working of Tower Crai	ne with detailed s	sketch.[9]			
07)	neeps of Probability' in A.E.R.T.7 Explain the three	What is the 'Co	(02) (1)			
Q7) a)			[8]			
b)	execution		[9]			
	excavation.		1-1			
O8) W	rite notes on any FOUR.		[16]			
a)						
b)						
c)						
d)						
e)		3-4	K			
-)		- 12				
	4 4 4	11/2				
OTS	5	5				