

**DIPLOMA IN CIVIL ENGINEERING**  
**DCLE(G)**

00205

**Term-End Examination**

**December, 2014**

**BCE-051 : CONSTRUCTION MANAGEMENT**

Time : 2 hours

Maximum Marks : 70

**Note :** Question no. 1 is **compulsory**. Answer any **four** out of the remaining questions.

1. (a) Define the terms "Earliest Expected time" and "Latest Allowable time" in CPM.
- (b) Draw the network diagram for the following Activities and the given path. 4+10=14

	Activity	$t_O$	$t_L$	$t_P$	$t_E$	$\Sigma t_E$
Path 'A'	10-20	9	11	15	11-33	
	20-50	7	9	12	9-17	41-67
	50-80	4	7	11	7-17	
	80-100	11	14	17	14-00	
Path 'B'	10-20	9	11	15	11-33	
	20-50	7	9	12	9-17	41-84
	50-70	6	8	11	8-17	
	70-100	8	13	19	13-17	
Path 'C'	10-30	7	9	11	9-00	
	30-70	13	17	19	16-67	38-84
	70-100	8	13	19	13-17	

2. (a) How will you organise site drainage ?  
Explain the sequence of planning of the drainage system.
- (b) What do you understand by the term Storm Run-off ? Explain the factors affecting Storm Run-off. 7+7=14
3. Explain any two modes of 'Dispute resolution'.  
What are the advantages of Arbitration over Litigation ? 14
4. Differentiate between the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Client v/s Stakeholder
- (b) Skilled v/s Semiskilled Labour
- (c) Activity v/s Event
- (d) Induction v/s Training of Labour
5. Explain the activities undertaken during the planning and designing process of a project. 14
6. What are the facilities and infrastructure to be provided for the following at a project site :  $4 \times 3 \frac{1}{2} = 14$
- (a) Labour Colony
- (b) Storage of Cement and Steel
- (c) Hygiene and Sanitation
- (d) Training of Labour

7. Write short notes on any **four** of the following :  $4 \times 3 \frac{1}{2} = 14$

- (a) Bar-Chart
  - (b) Need Identification
  - (c) Screening of Labour/Workers
  - (d) Productivity of Task
  - (e) Site Organisation
  - (f) Elements of a Contract
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