DIPLOMA IN CIVIL ENGINEERING DCLE(G)

Term-End Examination

December, 2017

00057

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 project has the following set of activities with duration and predecessors as given below :

Activity	Predecessor	Duration (Weeks)
A	–	4
B	–	1
C	A, B	2
D	–	5
E	D	1
F	C, E	3
G	F	2

(a) Draw the network diagram showing LOT and EOT.

(b)   Show critical path and determine total duration of the project.   7+7=14

2.   Differentiate between the given terms (any *four*) :
$$4×3\frac{1}{2}=14$$

(a)   PERT vs CPM

(b)   Mediation vs Arbitration

(c)   Agreement vs Contract

(d)   Screening vs Assessment of labour competency

(e)   Storage vs Dumping

3.   What do you understand by training of labour ? Explain how would you organise training at a project site for labour to improve productivity.

$$4+10=14$$

4.   What should be the essential features of the following to meet the statutory compliance at a project site ? $4×3\frac{1}{2}=14$

(a)   Labour colony

(b)   Traffic routes

(c)   Safety induction

(d)   Work timings

5. How many types of competitive bid contracts are there ? Enlist any three of them and briefly explain any one. *14*

6. Explain the activities undertaken during project control and monitoring phase. How will you organise the project progress monitoring ? *7+7=14*

7. Write short notes on any *four* of the following :

$$4 \times 3\frac{1}{2} = 14$$

(a) Stakeholders in a Construction Project

(b) Productivity of Workmen

(c) Bar Chart

(d) Site Drainage

(e) Precautions Against Site Accidents

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