DIPLOMA IN CIVIL ENGINEERING DCLE(G)

Term-End Examination

December, 2013

BCE-051 : CONSTRUCTION MANAGEMENT

Time : 2 Hours *Maximum Marks : 70*

Note : *Question **No.1** is **compulsory**. Attempt any four questions from the remaining. All questions carrry equal marks.*

1. State whether the given statements are **TRUE** or **FALSE** : 7x2=14
    (a) The time between the start to the end of a project is termed as the project life span.
    (b) In work breakdown structure (WBS), all the bigger jobs are broken into smaller jobs.
    (c) In 'Milestone chart', we consider activities instead of events.
    (d) In PERT, we focus on events.
    (e) Total float for an activity
        = Latest start time + Earliest start time.
    (f) Inventory cost = ordering cost − cost of transportation.
    (g) Line of Balance method is applied to those jobs which are repetitive in nature.

2. (a) What are the different types of an 7 organisational structure ? Discuss their salient features.
    (b) Describe three types of authority in a 7 line-and-staff organisation.

3. Describe different methods of determining **14** progress of a project.

4. Draw the network showing earliest occurance time (EOT) and latest occurance time (LOT) for all the events and give critical path and duration of a project having the following set of activities :

Activity	Predecessors	Duration (weeks)	
A	-	7	**4+4+4+2=14**
B	-	3	
C	-	9	
D	A, B	4	
E	C, D	6	
F	C, D	8	
G	E, F	2	
H	G	6	

5. (a) What do you understand by **7** pre-qualification of contractors ? Give it's advantages and disadvantages.
   (b) Describe the following while organising a **7** construction site for a large project :
   (i) site access and site roads
   (ii) site protection

6. Describe in brief the different means of resolving **14** a dispute.

7. Describe the following in brief : **4x3½=14**
   (a) Lump sum contract
   (b) Lump sum and schedule contract
   (c) Labour contract
   (d) Build Operate Transfer (BOT) contract

8. Write short note on *any four* of the following :
   (a) Latest start time and latest finish time $4 \times 3\frac{1}{2} = 14$
   (b) Free float
   (c) Classification of construction project
   (d) Stakeholders in a construction project
   (e) Resource management in a construction project
   (f) Importance of construction planning
   (g) Formal and informal organisation