

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

**Term-End Examination**

**June, 2016**

00130

**BCE-051 : CONSTRUCTION MANAGEMENT**

*Time : 2 hours*

*Maximum Marks : 70*

**Note :** Answer any **five** questions. Give neat and labelled sketches. Use of scientific calculator is permitted.

1. In a project execution, there are various stakeholders. Explain the responsibilities of the following :

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

- (a) Owner (Client)
- (b) Contractor
- (c) Project Manager (Engineer)
- (d) Architect

2. What do you understand by Disputes arising out of the contract ? Explain Claims versus Disputes.

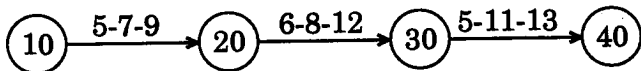
$$7 + 3 \frac{1}{2} + 3 \frac{1}{2} = 14$$

3. (a) What do you understand by Resources Productivity Control ? Explain Productivity Performance Index.

- (b) If a given  $1200 \text{ m}^3$  of masonry work has been planned to be done by 8 masons over a period of 15 days, then calculate the Performance Efficiency Index for the same number of masons, if the work is being actually performed in 18 days.  $7+7=14$

4. (a) What is slack time ? Explain positive and negative slack time.

- (b) The three activities 10 – 20, 20 – 30 and 30 – 40 of a network are shown in the figure below with their individual time estimates  $t_o$ ,  $t_i$  and  $t_p$  marked on them. Compute the expected time for each activity and for the series of activities.



$$5+9=14$$

5. What are the steps involved in Budget Cost Analysis ? Explain the commonly used budget monitoring parameters with the help of neat diagram and charts.  $5+9=14$

6. Labour welfare at project sites is becoming more and more important day-by-day. In view of this, explain the following :  $4 \times 3 \frac{1}{2} = 14$

- (a) Important points while setting up a labour camp
- (b) Facilities to be provided in the labour camp
- (c) Induction and job-oriented training for workmen
- (d) Display chart for safety at site

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

- (a) Earliest and Latest Start time
  - (b) Project Life Cycle
  - (c) Productivity and Quality at Construction Site
  - (d) Prevailing Training and Certification System of Tradesmen
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