DIPLOMA IN CIVIL ENGINEERING DCLE(G)

00303

Term-End Examination June, 2018

BCE-062 : CONSTRUCTION SUPERVISION AND BUILDING MAINTENANCE

| Time: 2 | hours | | Max | imum Marks : 70 |
|-----------------------------|---|--------------------------------------|--|---------------------------------|
| | Question no. 1 ut of the rema | | • . | answer any four |
| taki Eng Para Drav | in the blanking terms from lish, Flemish, apet, 230 × 1 wings, Site crete, Plain Ce | the follo 1:6, 15 mm, Plan, | wing list: 1:3, Fr Datum, C Reinforce | 7×2=14 og, Plinth, Collimation, |
| (a) | A map shows calledconstruction c | whil | | |
| | Levels are reference to joining the c lens is called l | enters o | line whi of eyepiece | le the line |
| BCF-062 | e . | . 1 | | DTO |

| | (c) | Damp Proof Course (DPC) is done at level while water proofing is done at |
|----|---------------|---|
| | (d) | The standard size of a brick is and the depression in the brick is called |
| | (e) | The two very common brick bonds are |
| • | (f) | and bonds. Generally the external wall plaster is in ratio while internal is in ratio. |
| | . (g) | RCC stands for while PCC stands for |
| 2. | (a) | List out various precautions which should be taken while placing the reinforcement. |
| | (b) | Describe the check-list of supervision for laying a concrete floor. 7+7=14 |
| 3. | Diff part | erentiate between the terms in the following as: $4 \times 3 \frac{1}{2} = 14$ |
| | (a) | Construction joint and Expansion joint |
| | (b) | Scaffolding and Formwork |
| | (c) | Panoramic view and Isometric view |
| BC | (d) E-062 | Unskilled, Semi-skilled and Skilled labour |

- 4. (a) Explain the purpose of constructing manholes in pipelines and vent pipes.
 - (b) Explain the purpose of pipe trap, waste trap and gully trap in a pipeline. 7+7=14
- 5. Describe the purpose and content of the following site documents: $4 \times 3\frac{1}{2} = 14$
 - (a) Muster Roll
 - (b) Site Diary
 - (c) Measurement Book
 - (d) Schedule of Work
- 6. (a) List out seven personal safety equipment with their purpose and types.
 - (b) Briefly explain various types of security arrangements required while working at heights in a construction project. 7+7=14
- 7. Write short notes on any two of the following: $2\times7=14$
 - (a) Slump Test
 - (b) Curing
 - (c) Bill of Quantities
 - (d) Phases of Construction Project