

Diploma in Civil Engineering

Term-End Examination

June, 2010

00405

**BCE-062 : CONSTRUCTION SUPERVISION
AND BUILDING MAINTENANCE**

Time : 2 hours

Maximum Marks : 70

*Note : Question number 1 is compulsory. Answer any four
from the remaining questions.*

1. Fill in the blanks by choosing from given options : **14x1=14**
- (a) Fabrication drawing is a part of _____
drawings.
(Plan/Elevation/Structural)
- (b) _____ help the management to review
the functioning of the construction equipments.
(Log books/Schedules/Forms)
- (c) The equipment management could be the
area of _____ management.
(Top level/Middle level/Lower level)
- (d) _____ shows the fabrication details of
reinforcing bars.
(Bar bending schedule/Estimate/Equipment)

- (e) _____ is an offer submitted by an intending contractor to the owner.
(Schedule/Tender/Specification)
- (f) Cement bag weighing 50 kgs should be taken as _____ cubic meter.
(0.035/0.025/0.045)
- (g) _____ drawings provide necessary information about internal electrification.
(Service/Structural/Steel)
- (h) A₀ size drawing sheet has a size _____ .
(841 × 1189mm/594 × 841mm/420 × 594mm /297 × 420mm)
- (i) Lime used in lime mortar shall confirm to class C hydrated lime of IS : _____ .
(712 – 1984/750 – 1984/712 – 1980)
- (j) Legal expenses are the part of _____ indirect costs.
(Office/Structural/imaginary)
- (k) Attendance register is kept in the direct custody of the _____ .
(Director/Supervisor/Peon)
- (l) _____ is a view of structure seen from the above.
(Section/Plan/Elevation)

- (m) The Engineer-in-charge passes the instruction to the contractor by recording in a _____ .
(Site order book/Challan/Penalty books)
- (n) Fungi attack timber only when the moisture content of timber is above _____%.
(5/12/27)
2. (a) Describe phases of construction project and supervision briefly. 6
(b) Describe various methods of removing blockage in the vertical part of a sewer line. 8
3. (a) Write down the execution process of brick bat coba and tiling treatment. 6
(b) Enumerate the responsibilities of a supervisor in a project. 8
4. (a) Differentiate between site diary and site order book. 6
(b) Explain the importance of good specifications for a construction supervisor. 8
5. (a) Differentiate between general conditions of contract and special conditions of contract. 6
(b) What are the checks to be observed during supervision of structural steel work ? 8

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| 6. | (a) | Describe steel reinforcement corrosion and measures for control. | 6 |
| | (b) | Justify that the interim bills provide the record of progress both in physical and financial terms. | 8 |
| 7. | (a) | Explain the importance of notes, revision and scaling of missing dimension in the context of structural drawing. | 6 |
| | (b) | Generate points of the check list for inspecting wooden door shutters and window shutters with fittings. | 8 |
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