

**B.Tech. CIVIL (CONSTRUCTION
MANAGEMENT)**

BTCLEVI

Term-End Examination

June, 2012

**ET-523(A) : CONSTRUCTION WORKS
SUPERVISION**

Time : 3 hours

Maximum Marks : 70

Note : Question number 1 is compulsory. Attempt four more questions from question number 2 to 7. Use of calculator is permitted.

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1. Describe in brief : 7x2=14
- (a) Brick Masonry.
 - (b) Nominal and actual sizes of Modular bricks.
 - (c) Work ability of concrete.
 - (d) Method of measuring slump of concrete mix.
 - (e) Write any two duties of a construction supervisor.
 - (f) What is the purpose of inspection of projects ?
 - (g) What is a general specification of an item of work ?

2. (a) How do the role and responsibility of a supervisor differ in getting work done directly by workers or through a sub - contractor ? 7+7
- (b) Differentiate between departmental construction and the construction done through a contractor. Give their merits and demerits.
3. (a) What is the importance of a measurement book ? How does a measurement book help in arbitration ? 7+7
- (b) Briefly explain the various forms of contract agreement. Which type of contract is convenient for making payment to the contractor, and why ?
4. (a) Describe in detail the check list for form work for a slab with beams. 7+7
- (b) A contractor is going to lay plain cement concrete for flooring in a building for ground floor. What guidelines and check list would you provide to your assistant to get quality work done ?
5. (a) State and explain what is meant by "specification". List down the various objectives of the specification. 7+7
- (b) What is administrative approval and technical sanction ? Explain.

6. (a) Explain in brief the term "Budget of a project". How is the project budget prepared ? 7+7
- (b) Describe the state of bricks available in the field. Why are dry bricks or stones not used while laying ? Why is curing necessary in brick and concrete works ?
7. (a) Explain the important points to be observed during inspection of the following items of construction work 7+7
- (i) R.C.C.
 - (ii) Masonry
 - (iii) Sanitary and water supply services
 - (iv) Electrical services.
- (b) Enumerate the factors which affect the analysis of rate of any item ? Write down the detailed procedure of rate analysis.
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