

**AQ-2826**

**Faculty of Engineering & Technology**

**M.E. Civil Engg. (Construction Engg. & Managt.) Semester-II (C.G.S.) Examination**

**CONSTRUCTION QUALITY CONTROL AND MANAGEMENT**

**Paper—2 CM 04**

**Sections—A & B**

**Time—Three Hours]**

**[Maximum Marks—80**

**INSTRUCTIONS TO CANDIDATES**

- (1) All questions carry marks as indicated.
- (2) Answer **THREE** questions from Section A and **THREE** questions from Section B.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Illustrate your answers wherever necessary with the help of neat sketches.
- (5) Use pen of Blue/Black ink/refill only for writing the answer book.

**SECTION—A**

1. (a) What is Quality ? What are the requirement of Quality ? 7
- (b) Write requirements of Quality system. 6

**OR**

2. (a) What do you mean by TQM ? What are the basic principles of TQM ? 7
- (b) Write a note on—Quality Plan. 6
3. (a) What is the necessity of TQM ? 6
- (b) Explain the applications of ISO 9000 series in quality system of Architectural design. 7

**OR**

4. (a) Write a note on—Cost of Quality. 6
- (b) Write quality system approach in building design and construction. 7

5. (a) Explain application of ISO 9000 in TQM in building industries. 7  
(b) What are the major attributes and objectives of Quality Circle ? 7

**OR**

6. (a) Enlist in brief types of auditing as per ISO 9000. 7  
(b) Explain organisational structure of a Quality Circle. 7

**SECTION—B**

7. (a) Explain quality inspection and audit as per PWD/CPWD specifications. 6  
(b) What are the benefits of TQM ? 7

**OR**

8. (a) Explain practical aspects of quality control in building industry. 6  
(b) What is the requirement of TQM system in building maintenance ? 7  
9. (a) What are the parameters for Quality Control of potable water ? 6  
(b) Write a note on—'Dimensional Control'. 7

**OR**

10. (a) Draw quality assurance flow chart for bituminous pavement. 6  
(b) What is the requirement of projected traffic and designing road width in construction of road ? 7  
11. (a) Write a note on—Quality control plan. 7  
(b) Write job procedure of item of plain cement concrete. 7

**OR**

12. (a) How will you prepare a job procedure of construction work for quality assurance and quality control ? 7  
(b) How will you improve quality through mechanisation ? 7