

CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

Semester 2 Examinations 2010

Module Title: CS3 Construction Technology 3B

Module Code: BULD 7005

School: Building and Civil Engineering

Programme Title: Bachelor of Science in Construction Economics – Award
Bachelor of Science in Construction Management – Award

Programme Code: CCECO_7_Y3
CMNGT_7_Y3
CCECE_7_Y3
CCMNE_7_Y3

External Examiner (s): Mr. N. Dempsey, Mr. P. Quinn, Mr. T. Cahalane,
Mr. G. O'Rourke

Internal Examiner (s): Mr. S. Cullinan

Instructions: Answer THREE questions. Overall marks for this examination are 70 marks (maximum).

Duration: 2 Hours

Sitting: Summer 2010

Requirements for this Examination:

Note to Candidates: Please check the Programme Title and the Module Title to ensure that you have received the correct examination paper.
If in doubt please contact an Invigilator.

Q1. (a) Buildings need to be designed and constructed to provide the best possible resistance to actions of fire. Identify and describe passive fire protection measures for a four-storey commercial building. (15 Marks)

(b) Show with diagrams two methods of providing fire protection to a steel column. (8.33 Marks)

Q2. (a) Discuss the particular factors that could influence the demolition of a four - storey reinforced concrete framed commercial building. (15 Marks)

(b) Briefly describe two methods of demolition that could be used to demolish a four-storey reinforced concrete framed commercial building. (8.33

Marks)

Q3. Discuss (with diagrams) the functional, selection and performance criteria of suspended ceilings for a commercial building. (23.33

Marks)

Q4. Discuss the functional, types, selection, and performance criteria of partitions for a commercial building.

(23.33 Marks)