

[ENG15]

**UNIVERSITY OF BOLTON**

**SCHOOL OF ENGINEERING**

**BSc CONSTRUCTION PROJECT MANAGEMENT**

**SEMESTER TWO EXAMINATION 2023/2024**

**BUILDING AND ENVIRONMENTAL TECHNOLOGY**

**MODULE NO: CAS5010**

Date: Tuesday 14<sup>th</sup> May 2024

Time: 2:00 – 4:00pm

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**INSTRUCTIONS TO CANDIDATES:**

There are SIX questions.

Answer ANY FOUR questions.

Marks for parts of questions are shown in brackets.

This Examination paper carries a total of 100 marks.

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School of Engineering  
BSc Construction Project Management  
Semester Two Examination 2023/24  
Building and Environmental Technology  
Module No. CAS5010

Students to answer any **FOUR of SIX** questions (each question 25 marks)

1. Explain the procedures and processes to be followed by supply chain parties in the construction industry, to ensure compliance with the Building Safety Act (2022).  
**(25 marks)**
2. Summarise the benefits of the Building Regulations and Fire Safety report by Dame Judith Hackitt report published in 2018.  
**(25 marks)**
3. Lessons need to be learnt from the Grenfell Tower fire disaster in 2017. Residents raised safety concerns up to 12 years prior. Discuss the role of public pressure, and complexities around measures being taken to prevent similar tragedies.  
**(25 marks)**
4. Discuss what the Building Safety Act 2022 means for the built environment. Include what it will mean for the construction industry, developers, facilities management, and existing buildings with defects.  
**(25 marks)**
5. High-risk buildings (HRB) include those that are 18 metres high or at least 7 storeys, and containing at least 2 residential units. Appraise if this definition is robust enough to prevent future risk to buildings and loss of life.  
**(25 marks)**
6. Critically evaluate the social, economic and equality impact to those living in high rise buildings.  
**(25 marks)**

**END OF PAPER**