

**TECHNICAL UNIVERSITY OF KENYA**  
**BACHELOR OF ENGINEERING IN ELECTRICAL & ELECTRONICS ENGINEERING**  
**ASSIGNMENT: EEEQ462 CONTROL SYSTEMS ENGINEERING B**

**DATE: November 2018**

**DATE DUE: 29<sup>th</sup> November**

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**INSTRUCTIONS**

1. Attempt all questions.
  2. All workings must be clearly shown.
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**QUESTION ONE**

- a) State three advantages and two disadvantages of feedback systems. **[5 marks]**
- b) Explain why a derivative controller is not used alone in control systems **[3 marks]**
- c) State and explain three limitations of frequency response analysis **[6 Marks]**
- d) Define a proportional plus integral controller and briefly explain its working principle **[4 Marks]**
- e) State one effect and one advantage of a PD controller **[2Marks]**

**\*\* END OF ASSIGNMENT \*\***