

Date of Examination  
01.10.2015



No of Question	06
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**GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY**  
**BACHELOR OF SCIENCE IN ENGINEERING DEGREE EXAMINATION – 2015**

**INTAKE 30 5<sup>TH</sup> SEMESTER EXAMINATION– SUPPLEMENTARY**  
**2015 SEPTEMBER/OCTOBER**  
**(Streams - CE, ET, EE, ME, MR)**

**PROFESSIONAL ETHICS**  
**(CE 5222)**

**Instructions:**

**Duration: 03 Hours**

Answer question Number ONE and ANY THREE others.

This examination carries 70% of the total mark for the subject.

Question number One carries 40 % of the marks for this examination

Each of the other questions carry 20 % of the marks for this examination.

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**Question 01**

Develop one narrative within about 200 words, with reference to a project/contract preferably in your field of study to demonstrate the violation of the following ethical principles identifying the instances in your narrative where such ethical principles are violated.

**(30 Marks)**

In each case indicate the correct course of action that should have been taken.  
**(10 Marks)**

- (i) "Engineers shall not knowingly participate in any act, which will result in waste or misappropriation of public funds"
- (ii) "Engineers at all times avoid all known or potential conflicts of interest that involve the engineer himself."
- (iii) "Engineers shall carefully evaluate adverse environmental impacts and incorporate practical remedial measures to minimize them."

**Question 02**

Explain with examples what you understand by the following types of values indicating the reasons why such values are necessary. (i) Moral Values (ii) Etiquette (iii) Protocol (iv) Ethical Values.  
**(5x4=20 Marks)**

**Question 03**

Describe the steps involved in management of risk related to physical injury/damage to people and property at a work place, illustrating your answer with reference to a specific work place selected by you.  
**(20 Marks)**

**Question 04**

Explain the environmental ethical issues related to the following, indicating the need for ethical standards related to such issues. :  
**(5x4=20Marks)**

- (i) Anthropocentrism
- (ii) Biocentrism
- (iii) Ecocentrism
- (iv) Control of Global Warming.

**Question 05**

(a) Explain any five ethical principles related to computer ethics and in each case, briefly indicate the relevance of such principles.  
**(4x5=20marks)**

**Question 06**

Describe giving one example in each case, what you understand by the following statements related to Research Ethics:  
**(5x4=20Marks)**

- (i) "Preserve privacy and confidentiality whenever relevant."
- (ii) "Do not plagiarize the work of others."
- (iii) "Do not skew the conclusions based on funding."
- (iv) "Respect the terms of Research Contracts undertaken."

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