

Date of Examination
01.10.2015



No of Question	06
No of Pages	02

GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY
BACHELOR OF SCIENCE IN ENGINEERING DEGREE EXAMINATION – 2015

INTAKE 30 5TH 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.

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."
