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**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2014/2015 ACADEMIC YEAR**

**SUPPLEMENTARY/SPECIAL EXAMINATION**

**THIRD YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY**

**COURSE CODE: BIO 311**

**COURSE TITLE: BIOCHEMISTRY OF NUCLEIC ACIDS**

**DATE: 24/8/2015**

**TIME: 2.00 P.M-5.00 P.M**

**INSTRUCTIONS TO CANDIDATES:**

*Answer* ***ALL*** *questions*.

1. Briefly describe **three** (3) post transitional modifications that occur in endoplasmic. (6 marks). Describe **seven** biochemical characteristics of a codon. (14 marks)
2. Discuss in detail, the biochemical modifications of RNAs after transcription. (12 marks)
3. Discuss the catabolism of nucleic acids. (10 marks)
4. DNA is termed as the central dogma of life. Explain (10 marks)
5. State the operon theory and explain the ways in which operons are regulated. (8 marks)
6. Using a well labelled structure of tRNA, describe its four arms. (10 marks)