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**FACULTY OF BASIC MEDICAL SCIENCES**  
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**REMO CAMPUS, IKENNE**  
**2012/2013 HARMATTAN B.SC. EXAMINATION**

**BCH 415; ADVANCE METHODS IN BIOCHEMISTRY**

**TIME: 2 HOURS**

**Answer all questions**

**1a. Explain the following terms:**

**[i] standard solution**

**[ii] molar concentration**

**[iii] percentage concentration ( $w/v$ )**

**b. how can you prepare: [i] 250ml of 0.5 M NaOH solution [ii] 500ml of 0.01 M  $H_2SO_4$  given % purity is 98% and Density is 1.18**

**2a State the principles involve in:**

**i Extraction of egg albumen using salting-out method**

**ii purification of the albumen extracted**

**b. Explain the method of extracting the albumen only**

**3. Write out the necessary contents in a developed project book**

**4a State the definition, concept and importance of Glycemic index**

**b. What is fasting blood sugar and explain its relevance in clinical diagnosis**