



**UNIVERSITY OF GHANA**

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**B.SC FIRST SEMESTER EXAMINATIONS: 2015/2016**

**DEPARTMENT OF FOOD PROCESS ENGINEERING**

**FPEN 409: SAFETY IN PLANTS (2 CREDITS)**

**INSTRUCTIONS:**

**ANSWER 4 QUESTIONS**

**TIME ALLOWED: 2 HOURS.**

**1.**

Occupational hazards pose significant cost to the industry, discuss these costs and relate it to the variation in performance of;

- i. Countries
- ii. Economic size
- iii. Size of enterprise

**2.**

OSH is defined by certain key principles, discuss and give the relevance of five of these principles in OSH.

**3.**

Working in a food industry, discuss your rights, employer's responsibilities and government duties towards your safety

4.

In a country like Ghana, legislation and regulation are the very foundation of social order and justice. Discuss their relevance in OSH policy enforcement and their problems and solutions relating to labour legislations.

5.

The role of labour inspection in implementing national policy in OSH programme is crucial. Discuss the appropriate measures necessary to achieve the objectives of the labour inspection.

6.

Process Safety Management (PSM) is a very important OSH management tool in specific industries.

- i. Mention 5 industries that PSM target
- ii. Define process as used in OSHA
- iii. What are the roles of the employer in controlling hazards in PSM
- iv. What are the roles of the employee to reduce risk under PSM
- v. What industries are not covered under the PSM standards.

7.

Discuss the relevance of LOTO in machine guarding and explain the various steps that need to be followed to implement LOTO.