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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2017/2018**

COURSE NAME : FOOD QUALITY ASSURANCE AND SAFETY
COURSE CODE : DAU 21202
PROGRAMME CODE : DAU
EXAMINATION DATE : JUNE / JULY 2018
DURATION : 2 HOURS AND 30 MINUTES
INSTRUCTION : ANSWER **FOUR (4)** QUESTIONS ONLY

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THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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- Q1** (a) In a food industry, it is quite common for food products to be recalled from market place.
- (i) Define a product recall. (2 marks)
 - (ii) Describe **four (4)** reasons why a product recall had to be taken. (8 marks)
- (b) Discuss the **three (3)** classes of product recall and give an example for each class. (9 marks)
- (c) List **six (6)** of product recall plans should be developed by a food business entity in facing a possibility of product recall. (6 marks)
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- Q2** (a) A food plant inspection is an organized examination or formal evaluation exercise of food plant and premise. The ultimate goal of inspections is to ensure the safety of all food products reaching commerce. List **four (4)** benefits of food plant inspections. (4 marks)
- (b) (i) Name **two (2)** types of food plant inspection. (2 marks)
- (ii) Explain the advantage and disadvantage of both types of inspection. (2 marks)
- (c) Explain the following act of actions if a food plant inspection was failed or violated of the Food Act 1983, Food Regulation 1985 and Food Regulation 2009 for safety or other reasons.
- (i) Seizure (6 marks)
 - (ii) Restraining Order or Injunction (7 marks)
 - (iii) Prosecution (4 marks)

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- Q3** (a) Food safety has to be maintained from production to consumption. Food Quality and Safety Division, Ministry of Health, enacted law on food quality and safety.
- (i) Name the law and the year starting the enforcement of law. (2 marks)
- (ii) State the purpose of the law in **Q3(a)(i)**. (3 marks)
- (b) Halal food issues has attracted public attention especially to the Muslim community and other communities in Malaysia.
- (i) Explain the role of *Jabatan Kemajuan Islam Malaysia (JAKIM)* related to halal issues. (3 marks)
- (ii) Stated what is meant when a food product stamped with Halal Certification logo from JAKIM. (4 marks)
- (iii) List **four (4)** products that does not Halal according to Syariah. (4 marks)
- (c) Malaysian government has established Halal Development Corporation (HDC) to introduce Malaysia as International Halal Hub. Explain the main role of HDC to achieve the objective. (5 marks)
- (d) Explain the role of Scientific and Industrial Research Institute of Malaysia (SIRIM) on the food quality and safety in Malaysia. (4 marks)
- Q4** (a) An effective HACCP system is built on a solid foundation of a prerequisite programs. These programs provide the basic environment and operating conditions which are necessary for the production of safe, wholesome food.
- (i) Name all **four (4)** the prerequisite programs involved. (4 marks)
- (ii) Discuss briefly any **three (3)** of the programs. (12 marks)
- (b) Explain the implementation of HACCP in Malaysian food industry. (9 marks)

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- Q5** (a) Quality Assurance and Quality Control are closely related concepts, both are aspect of quality management, but they are fundamentally different in their focus. Explain the differences in term of ;
- (i) definition (2 marks)
 - (ii) goal (2 marks)
 - (iii) responsibility (2 marks)
- (b) Quality Control is a process by which entities or establishment review the quality of all factors involved in production. List **six (6)** jobs scope of a Quality Control program. (6 marks)
- (c) There are **three (3)** principles of quality control management that can be used in the food processing. These principles have a part to play in the overall quality management process. Discuss briefly these principles. (6 marks)
- (d) (i) Explain **four (4)** functions of Quality Assurance. (4 marks)
- (ii) Name the components involve in a Quality Assurance program. (3 marks)
- Q6** (a) (i) Define the technical definition of the term standard. (3 marks)
- (ii) Describe the function of International Standardization Organization (ISO), as an independent international standard-setting body. (3 marks)
- (b) ISO 9000 Series are international set of standards for quality management applicable to a range of organizations from manufacturing to service industries.
- (i) Name the **three (3)** series that being used internationally in quality management program. (3 marks)
 - (ii) Explain the function of each series. (6 marks)
- (c) (i) Name the Malaysian version of quality management system documentations. (2 marks)
- (ii) Explain the beneficial of the implementation of Quality Management Systems to the Malaysian companies. (8 marks)

– END OF QUESTIONS –

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