



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2016/2017

COURSE NAME : FOOD QUALITY ASSURANCE AND SAFETY
COURSE CODE : DAU 21202
PROGRAMME : 2 DAU
EXAMINATION DATE : JUNE 2017
DURATION : 2 HOURS 30 MINUTES
INSTRUCTION : ANSWER **FOUR (4)** QUESTIONS ONLY

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

- Q1** (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) focus (2 marks)
 - (iii) goal (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 programme. (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 programme. (3 marks)
- Q2** (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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Q3 There are **twelve (12)** steps required in the implementation of a complete HACCP system and these are designed to ensure that the HACCP **seven (7)** principles are applied correctly. The first-five steps are called **five (5)** preliminary tasks, need to be established first in the HACCP plan and implementation.

(a) Name the **five (5)** preliminary tasks. (5 marks)

(b) Explain briefly all of them. (20 marks)

Q4 In a food industry, it is quite common for food products to be recalled from marketplace. A product recall is a request to return to the manufacturer a batch or a whole production runs of a product.

(a) Give suitable reasons why a product recall is known to be necessary. (3 marks)

(b) Discuss the **three (3)** classes of product recall and give relevant examples. (6 marks)

(c) Identification and traceability are among the requirements in a product recall. Discuss the importance of these **two (2)** requirements. (16 marks)

Q5 (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 programme. (3 marks)

(ii) Explain the function of each series. (6 marks)

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(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)

- Q6** (a) Food safety has to be maintained from production to consumption. In Malaysia many ministries and agencies are involved in the process. Among them is Food Quality and Safety Division, Ministry of Health which 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 **Q6(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) Specify what is meant when an organization states that they are “HALAL CERTIFIED” company. (4 marks)
 - (iii) List **four (4)** products that does not Halal according to Shariah. (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)

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– END OF QUESTION –