17 MAY 2016
THE OPEN UNIVERSITY OF SRI LANKA
KANDY REGIONAL CENTRE
EXAMINATION

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF BASIC SCIENCES

BACHELOR OF MEDICAL LABORATORY SCIENCES- LEVEL 04 - 2015/16
MLU2146-MICROBIAL ANALYSIS OF FOOD AND WATER – MLU2146
NO BOOK TEST - 02

DATE: 17th May 2016

DURATION: ONE HOUR
TIME: 2.00 p.m. – 3.00 p.m.

REGISTRATION NO: .....

This question paper consists of 08 pages with 20 Multiple Choice Questions (Part A) and 06 Short Answer Questions (Part B).

IMPORTANT INSTRUCTIONS TO CANDIDATES

- Write your Registration Number in the space provided.
- Answer **ALL questions**.
- **Multiple Choice Questions (Part A):** Indicate answers in the answer sheet provided by placing a cross (X) in the relevant cage.
- **Short Answer Questions (Part B):** Write answers within the space provided.
- Do not remove any page/part of this question paper from the examination hall.

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Part B –Short Answer Questions

(60 marks)

Write answers in the space provided.

2. A food borne outbreak was reported from contaminated raw octopus served at a wedding in recently. Acute gastroenteritis was detected in 20 % of the invitees characterized by diarrhea, vomiting, and abdominal cramps. Answer the questions using above information.

2.1 Write two possible food borne pathogens that can be associated with above food borne outbreak. (10 marks)

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2.2 Write the specific medium that can be used to isolate above mentioned (2.1) pathogens. (06 marks)

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2.3 Indicate three culture based methods/techniques which is used to detect the above pathogens in a normal laboratory. (12 marks)

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2.4 Indicate four modern techniques that can be used to detect the above pathogens. (12 marks)

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2.5 Briefly explain the principle of one of above mentioned methods. (10 marks)

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2.6 Indicate the significance of "immunomagnatic separation" in the laboratory detection of *E.coli* O157:H7. (10 marks)

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