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The Open University of Sri Lanka
Bachelor of Medical Laboratory Sciences (B.MLS)



MLU1247- General Microbiology
Semester 02- Academic year 2015/2016

No Book Test 02

Return your question paper with the answer sheet

Date: 18.05.2016	Duration – 1 1/2 hours
Time: 10.00 a.m-11.30 a.m	Registration No.....

Please read the following instructions carefully before you answer the paper.
(100 marks)

Part – A (20 marks)

There are 10 multiple choice questions in this paper, each question with five responses. Select the correct response and mark in the given answer sheet.

Part - B (10 marks)

You are given 10 matching questions. Match the answers given in the column B with the descriptions given in the column A. Write the correct letter in the given space.

Part C (40 marks)

You are given 2 short answer questions. Each question contains four parts. Answer all the questions in given spaces.

Part – D (30 marks)

There is one structured essay questions. The question contains five parts. Answer all the questions in given spaces.

Good Luck!

Part B - Matching Questions

	Column A			Column B
1	The process of removing or destroying all microbial life on an object.	()	a	Disinfection
2	The heat treatment of canned foods that used to destroy <i>C. botulinum</i> endospores.	()	b	Filtration
3	The process of reducing or inhibiting microbial growth on a nonliving surface.	()	c	Disinfectants
4	The process of reducing or inhibiting microorganisms on living tissue.	()	d	Sterilization
5	The most effective method of moist heat sterilization.	()	e	Boiling
6	The technique of passage of a liquid or gas through a filter with pores small enough to retain microbes	()	f	Antisepsis
7	Chemical agents are used on inanimate objects	()	g	HTST pasteurization
8	The technique that use high temperature for a short time (72 °C for 15 seconds) to destroy pathogens without altering the flavor of the food	()	h	Antibiotics
9	The method of killing many vegetative cells and viruses within 10 minutes increasing temperature up to 100° C.	()	i	Commercial sterilization
10	A substances produce by micro organism which control the growth of other micro organisms	()	j	Autoclaving

(10 marks)

Registration No:.....

Part C - Short answer questions

1.

a) Define the culture media. *[5marks]*

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b) Explain the purpose of adding agar to culture media. *[4 marks]*

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c) Name three specific types of culture media which are used in general microbiology laboratory. *[6 marks]*

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d) Briefly explain the use of anaerobic jar in incubation of culture media. *[5 marks]*

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2.

a) Write the general action of anti-microbial drugs. *[3 marks]*

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b) Indicate three antimicrobial drugs which inhibit the protein synthesis of micro organisms. *[6 marks]*

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c) Write two methods that are used to assess the sensitivity of the antimicrobial drugs. *[4 marks]*

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d) Briefly explain the principle of one method which mentioned in above 2 (c) . *[7 marks]*

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Registration No:.....

Part D-Structured essay questions (30 marks)

1.1. Briefly explain how microorganisms can cause harm to the human body. *[4 marks]*

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1.2. Compare infection and disease. *[8 marks]*

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1.3. What is nosocomial infection? *[5 marks]*

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Registration No:.....

1.4. Name the common microorganism that is responsible for the dental caries (tooth decay). *[5marks]*

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1.5. Briefly describe the process of development of dental caries. *[8 marks]*

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