

**UNIVERSITY OF BOLTON**

**FACULTY OF HEALTH AND WELLBEING**

**FdSc DENTAL TECHNOLOGY**

**SEMESTER ONE EXAMINATION 2019/2020**

**ORAL ANATOMY AND PHYSIOLOGY AND BASIC  
DENTAL APPLIANCE DESIGN**

**MODULE NO: DNT4002**

Date: Friday 17 January 2020

Time: 10.00 am – 11.30 am

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**INSTRUCTIONS TO CANDIDATES:**

There are 8 questions in Section A and 3 questions in Section B on this paper.

Answer ALL questions in Section A and 2 questions from 3 in Section B.

There are 60 marks available.

The pass mark is 40%

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Faculty of Health and Wellbeing  
FdSc Dental Technology  
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**SECTION A – ANSWER ALL QUESTIONS**

1) On what sort of equipment would you use a high level disinfectant?

**1 mark**

2) Principle 1 of the General Dental Council's (GDC) standards for the dental team states that you must "Put patients' interests first".

What do you understand by this statement?

**3 marks**

3) What is meant by the term aseptic techniques?

**2 marks**

4) Materials and tissues in the oral cavity appear differently on dental x-rays. Briefly describe the 2 terms used in dental imaging and give 2 examples which each highlight.

**10 marks**

5) Give one reason why it is essential to undertake Continuing Professional Development (CPD).

**1 mark**

**Please turn the page**

Faculty of Health and Wellbeing  
FdSc Dental Technology  
Semester One Examination 2019/2020  
Oral Anatomy and Physiology and Basic Dental Appliance Design  
Module No. DNT4002

- 6) When working in a dental laboratory environment name 3 of the many defence barriers against disease.

**3 marks**

- 7) National Health Service (NHS) dental treatment is divided into 3 bands. What does treatment band 2 involve?

**5 marks**

- 8) What does the term disinfection mean and what is its main application?

**5 marks**

**Total marks: Section A - 30 marks**

**Please turn the page**

Faculty of Health and Wellbeing  
FdSc Dental Technology  
Semester One Examination 2019/2020  
Oral Anatomy and Physiology and Basic Dental Appliance Design  
Module No. DNT4002

**Section B – Answer only 2 questions from this section**

- 9)
- a) Discuss the multi-step process that needs to be followed when handling an impression or appliance when it enters the dental laboratory.  
(9 marks)
  - b) Cross infection is different from cross contamination. How is this the case?  
(4 marks)
  - c) Name 2 infectious diseases which are of concern to the dental team.  
(2 marks)

**Total 15 marks**

- 10)
- a) Name the links that make up the chain of infection and explain how each link contributes to an infection occurring.  
(12 marks)
  - b) What are the 3 main ways that pathogenic microorganisms can be transmitted?  
(3 marks)

**Total 15 marks**

**Please turn the page**

Faculty of Health and Wellbeing  
FdSc Dental Technology  
Semester One Examination 2019/2020  
Oral Anatomy and Physiology and Basic Dental Appliance Design  
Module No. DNT4002

- 11) The promotion of wellness and disease prevention is now as much a focus for the National Health Service (NHS) as managing poor health is.

Discuss this statement.

Your answer should include dentistry and its role with in healthcare.

**15 marks**

**Total marks: Section B 30 marks**

**END OF QUESTIONS**

Past Examination Paper