

UNIVERSITY OF BOLTON

FACULTY OF HEALTH AND WELLBEING

BSc (HONS) DENTAL TECHNOLOGY

SEMESTER TWO EXAMINATION 2022/2023

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

MODULE NO: DNT4102

Date: Tuesday 9 May 2023

Time: 2.00 pm – 4.00 pm

INSTRUCTIONS TO CANDIDATES:

There are 12 questions on this examination paper.

Answer ALL questions on this examination paper.

There are a total of 100 marks available.

Marks for parts of questions are shown in brackets.

The pass mark is 40%.

Faculty of Health and Wellbeing
BSc (Hons) Dental Technology
Semester Two Examination 2022/2023
Oral Anatomy and Physiology and Basic Dental Appliance Design
Module No. DNT4102

Answer ALL questions on this examination paper

- 1) a) If a patient requires a filling as a result of an oral examination, which National Health Service (NHS) band do they come under?
(2 marks)
- b) What else can the patient expect from this level of treatment?
(4 marks)
- Total 6 marks**
- 2) Differentiate between attrition of enamel and erosion of enamel and their causes.
11 marks
- 3) a) Define the term periodontitis. Your answer should include the aetiology of it and a description of the main signs and symptoms.
(10 marks)
- b) When designing/constructing an appliance for a patient who has had periodontitis what are the main points that should be considered?
(10 marks)
- Total 20 marks**
- 4) How does the National Health Service (NHS) promote healthcare and help to achieve disease prevention?
10 marks

Please turn the page

Faculty of Health and Wellbeing
BSc (Hons) Dental Technology
Semester Two Examination 2022/2023
Oral Anatomy and Physiology and Basic Dental Appliance Design
Module No. DNT4102

- 5) Briefly define what you understand by the terms radiopaque and radiolucent.

Your answer should include 2 examples of each.

10 marks

- 6) How is a course of treatment (CoT) defined?

2 marks

7)

- a) Give one reason why it is essential to undertake Enhanced Continuing Professional Development (ECPD).

(1 mark)

- b) When making your annual statement to the GDC what information will you be declaring?

(3 marks)

Total 4 marks

- 8) Standards for the dental team contain 9 principles.

Principle 9 states that you must "Make sure your personal behaviour maintains patients' confidence in you and the dental profession". What does this mean?

4 marks

Please turn the page

Faculty of Health and Wellbeing
BSc (Hons) Dental Technology
Semester Two Examination 2022/2023
Oral Anatomy and Physiology and Basic Dental Appliance Design
Module No. DNT4102

9)

- a) An obturator is an appliance that is often prescribed to a patient who has lost a significant proportion of their palate as a result of major oral surgery.

Concisely describe the purpose of this appliance.

(7 marks)

- b) What are the characteristics of benign tumours?

(7 marks)

Total 14 marks

10)

- a) Provide a definition of the word "wound"?

(2 marks)

- b) What are the 2 major ways in which wound healing occurs?

(2 marks)

- c) What are the main factors that could reduce the rate at which a wound heals?

(4 marks)

Total 8 marks

- 11) Define retention, stability, undercuts and clasping in removable partial prosthesis design.

9 marks

Please turn the page

Faculty of Health and Wellbeing
BSc (Hons) Dental Technology
Semester Two Examination 2022/2023
Oral Anatomy and Physiology and Basic Dental Appliance Design
Module No. DNT4102

12)

- a) Bacteria is an example of an internal factor that can cause disease in humans.

True or false?

(1 mark)

- b) What is one of the main causative bacteria in the development of dental caries?

(1 mark)

Total 2 marks

TOTAL MARKS - 100

END OF QUESTIONS