

UNIVERSITY OF BOLTON

FACULTY OF HEALTH AND WELLBEING

BSc (HONS) DENTAL TECHNOLOGY

SEMESTER TWO EXAMINATION 2023/2024

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

MODULE NO: DNT4102

Date: Tuesday 14 May 2024

Time: 2.00 pm - 4.00 pm

INSTRUCTIONS TO CANDIDATES:

There are 11 questions on this examination paper.

Answer ALL questions on this examination paper.

There are a total of 100 marks available.

The pass mark is 40%

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- 1) At their regular dental check up a patient is identified as having mild gingivitis.
 - a) What are the main signs and symptoms of this condition?
(5 marks)
 - b) Which dental banding would the treatment of this mild condition be classified in and what other procedures can the patient expect to receive within this treatment band?
(6 marks)
 - c) If a patient requires an impression taking for the construction of a dental appliance, why do you consider it essential that this condition is eliminated before doing so?
(4 marks)

Total 15 marks

- 2) Why do teeth naturally move in a mesial direction in each dental arch as a person ages?
2 marks
- 3) Viruses are one of the external factors that can lead to disease in humans. Briefly define a virus.
8 marks
- 4) Making every contact count (MECC) is an essential tool used to promote healthcare with the aim of achieving disease prevention. In a scenario where a patient visits their General Practitioner (GP) and on arrival is flushed, sweating and out of breath what steps could be taken to achieve this aim?
12 marks

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- 5) a) Which oral features identified by dental imaging and radiography are described as being radiopaque?
(6 marks)
- b) List the reasons why dental images are taken.
(10 marks)

Total 16 marks

- 6) Changes occur to adult dentition as a result of use and ageing. How does abrasion of enamel differ from erosion of enamel in the wearing of teeth?

12 marks

- 7) Name and briefly describe the 4 essential factors that need to be present in order for dental caries to occur.

8 marks

- 8) Tooth loss as a result of dental disease can influence the dental treatment provided to a patient. What, therefore, are the main factors that need consideration when designing an upper partial denture for a patient to ensure it remains in the required position and functions correctly.

14 marks

- 9) When does primary wound healing occur?

3 marks

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10) a) Identify 4 of the main signs and symptoms to look out for when identifying the possibility of oral cancer?

(4 marks)

b) An obturator will help improve a patients' quality of life. How will this be achieved?

(5 marks)

Total 9 marks

11) An antibiotic is a treatment for an active bacterial infection.

True or false?

1 mark

END OF QUESTIONS