

UNIVERSITY OF GREATER MANCHESTER
QUEENS DENTAL SCIENCES CENTRE
FdSc DENTAL TECHNOLOGY
SEMESTER TWO EXAMINATION 2024/2025
ORAL ANATOMY AND PHYSIOLOGY AND BASIC
DENTAL APPLIANCE DESIGN
MODULE NO: DNT4002

Date: Tuesday 13 May 2025

Time: 10.00 am – 11.30 am

INSTRUCTIONS TO CANDIDATES:

There are 9 questions on this examination paper.

Answer ALL questions on this examination paper.

There are a total of 80 marks available.

The pass mark is 40%

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- 1) Promoting healthcare with the aim of achieving disease prevention is at the forefront of the National Health Service. What strategies can be used to achieve this?

10 marks

- 2) Medical treatments such as radiotherapy, chemotherapy or diabetes medications can have an impact on dental treatment.

- a) What could the impact be on the oral environment and the hard and soft tissues within the oral cavity? Support your answer with examples.

(up to 5 marks)

- b) What recommendation should be made to patients that undergo such treatments to prevent dental health issues?

(up to 2 marks)

- c) What will be the considerations of providing implant treatment?

(up to 5 marks)

Total 12 marks

- 3) Define the terms cross-contamination and cross-infection and explain the difference?

4 marks

- 4) Identify four infection control procedures in the Dental Laboratory.

4 marks

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5) A patient that requires a denture repair arrives in the laboratory.

a) Explain the full process of appliance decontamination with referral to the different types of techniques.

(15 marks)

b) Choose two methods of disinfection and compare them by outlining their advantages and disadvantages.

(6 marks)

Total 21 marks

6) What is antisepsis?

2 marks

7) Discuss the six links that form the chain of infection.

12 marks

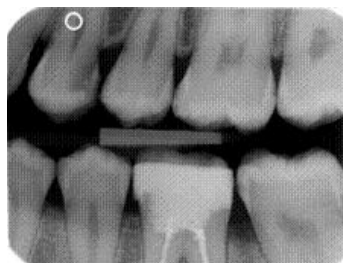
8) Radiography.

a) Describe and differentiate between the terms radiopaque and radiolucent and include two features identified by each.

(10 marks)

b) What type of radiograph is the image below? Which dental structures does it show?

(2 marks)



Total 12 marks

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- 9) List three symptoms of Type I allergic reaction.

3 marks

END OF QUESTIONS