**UNIVERSITY EXAMINATION 2018/2019**

**MEDICAL SCHOOL**

**DEPARTMENT OF DENTAL SCIENCES**

**DIPLOMA IN DENTAL TECHNOLGY**

**REGULAR**

**UNIT CODE: DDT3102 UNIT TITLE: CROWN AND BRIDGE III**

**MAIN EXAM TIME: 2 HOURS**

**INSTRUCTIONS:**

**SECTION A: ANSWER ALL THE QUESTION**

1. State FIVE welding defects. (5 Marks)
2. State FIVE causes of soldering failures. (5 Marks)
3. State FIVE qualities of an ideal flux. (5 Marks)
4. Distinguish welding from soldering (5 Marks)
5. Outline FIVE factors affecting the metal ceramics bond strength. (5 Marks)
6. Briefly explain compression as a way of bonding in a metal ceramometallic joint.

(5 Marks)

**SECTION B: ANSWER ALL QUESTIONS**

1. Describe the design of the connector metal sub-structure. (10 Marks)
2. Describe the proximal surface design for the metal substructure. (10 Marks)
3. Describe the occllusal design for the metal substructure. (10 Marks)

**SECTION C: ANSWER ANY TWO QUESTIONS**

1. a) Explain formation and role of metal oxide layer in ceramometallic restoration.

(10 Marks)

b) Discuss bond failure in metal ceramic joint. (10 Marks)

 2. a) Discuss the various types of pontic designs. (10 marks)

 b) Describe types of margin finish in metal ceramic restorations. (10 marks)

 3. Outline forces involved in formation of a ceramometallic joint. (20 Marks)