

**NELS N M NDELA**  
UNIVERSITY

**NOVEMBER 2019 EXAMINATION**

**MODULE DESCRIPTION** : Crystallography & Solid State Physics  
**MODULE CODE** : F321/FVV302(a) PAPER 1  
**FACULTY** : Science  
**QUALIFICATION** : BSc  
**EXAMINATION DATE** : 5 November 2019  
**SESSION STARTING TIME** : 09:00  
**DURATION (IN MINUTES)** : 180 Minutes  
**TOTAL MARKS** : 100  
**NUMBER OF PAGES** : Seven (7) (INCLUDING FIGURES AND ADDENDUM)  
**NUMBER OF ADDENDUMS** : 1 - Periodic Table  
**EXAMINER(S)** : 2.1 Prof ME Lee  
 2.2 Dr G Marx  
**MODERATOR(S)** : 1. Prof RE Kroon (UFS)  
**INSTRUCTIONS TO CANDIDATE** : 1. Answer Section A and Section B in separate answer books.  
 2. Answer all the questions  
 3. Hand in pages 5 and 6 containing figures 1-3  
 4. Show all your calculations  
**MATERIALS & VENUE REQUIREMENTS / INSTRUCTIONS TO INVIGILATOR** : Exam answer book (number)   
 Exam answer book cover only  
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 Multiple choice answer sheet (number)  
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 Other (Indicate document name)  
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**Seating requirement (Double desks, etc.):**  
  
**Aids & Technical guides allowed (list below):**

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