

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY  
FACULTY OF MEDICINE  
DIVISION OF SOCIAL MEDICAL SCIENCES  
MASTER OF SCIENCE DEGREE IN MIDWIFERY EDUCATION  
**EXAMINATION PAPER 1**

**MMW 7101** : **Embryology and Neonatology Paper 1**  
**Date** : **December 2013**  
**Time** : **3 Hours**

**Instructions to candidates**

**Answer any four questions.**  
**Start each question on a new leaf**

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1. Describe the content for teaching a group of high school students about the menstrual cycle including the functions of three hormones of significance. [25]
  2. Discuss foetal and newborn abnormalities due to chromosomal aberrations under the following:-
    - a. Socio-cultural perspectives [12]
    - b. Ethical perspectives [13]
  3. a) Analyse five technological methods of overcoming infertility world over. [15]  
b) Explain the relevance of these methods in the Zimbabwean culture [10]
  4. Physical, psychological and physiological factors can interfere with implantation. Discuss these barriers and preventive information that can be given to a client. [25]
  5. Explain the following concepts in the context of human development:-
    - i. Human cell chromosomes [12]
    - ii. Sperm capacitation [7]
    - iii. Neurulation [6]

**TOTAL 100**

**END OF EXAMINATION**