

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2017/2018

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL LABORATORY AND MEDICAL BIOTECHNOLOGY WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

PMT 121: MEDICAL EMBRYOLOGY

Date: 8th March, 2018

Time: 12. 00 - 3.00pm

INSTRUCTIONS:

Answer ALL Questions in Section A and

Answer Question 11 any other in Section B

ISO 9001:2008 CERTIFIED



SECTION A; ATTEMPT ALL QUESTIONS (40 MARKS)

- 1. Outline the Basic Cell Theory in Embryology Studies. (4 Marks)
- 2. Highlight in subsequent order the Cell Mitotic stages. (4 Marks)
- 3. Outline the common features of a Blastula. (4 Marks)
- 4. What are the Thermotactic and Chemotactic gradients in Mammalian fertilization? (4 Marks)
- 5. Differentiate karyokinesis from cytokinesis Cell mitotic stages. (4 Marks)
- 6. Outline the Biological processes differentiating meiosis from mitosis. (4 Marks).
- 7. Highlight the Cell types that form the structures of an ovarian follicle. (4 Marks)
- 8. Outline the differences between Eukaryotic Cells and the Prokaryotic Cells. (4 Marks)
- 9. Which Cell Cycle phases duplicates the Cell genetic materials? (4 Marks)
- 10. Outline the major embryological processes involved in Organogenesis. (4 Marks)

SECTION B: ATTEMPT QUESTION 11 PLUS ONE OF THE TWO (30 MARKS)

- 11. Discuss the Clinical Applications of Embryology Studies. (15 Marks)
- 12. Outline the factors that influence sperm motility during copulation. (15 Marks)
- 13. Give an exhaustive description of the eukaryotic cells highlighting the differences from prokaryotic cells. 15 Marks)