



**RAJARATA UNIVERSITY OF SRI LANKA  
FACULTY OF APPLIED SCIENCES**

**B.Sc. in Health Promotion  
First Year – Semester II Examination – September/October 2020**

**HPT 1107 – REPRODUCTIVE PHYSIOLOGY AND DEVELOPMENTAL BIOLOGY**

**Time: One and a half (1 ½) hours**

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**Answer ALL questions.**

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1. a) Define the following terms.
  - i. Chromosomal sex (10 marks)
  - ii. Phenotypic sex (10 marks)
- b) Describe the Hypothalamus-Pituitary-Gonadal axis in relation to reproduction. (40 marks)
- c) Explain the internal embryonic development of male foetus. (40 marks)
  
2. a) Explain the process of 'In-Vitro Fertilization (IVF)'. (40 marks)
- b) Explain in brief the formation of 'trophoblast' in the development of human embryo. (30 marks)
- c) Describe **two (02)** factors interfere with the development of the foetus. (30 marks)
  
3. a) Explain the physiological mechanism that leads to male puberty. (30 marks)
- b) Explain in brief the roles of following hormones in human reproduction.
  - i. Human Chorionic Gonadotropin (HCG) (20 marks)
  - ii. Progesterone (10 marks)
- c) Discuss **two (02)** common methods of contraception practiced in Sri Lanka. (40 marks)

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