

**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**(MCH 0822)**

**AUGUST 2022**

**Sub. Code: 1979**

**M.Ch. – REPRODUCTIVE MEDICINE AND SURGERY**

**Paper IV – RECENT ADVANCES IN ASSISTED REPRODUCTIVE TECHNOLOGY / EMBRYOLOGY, ETHICAL AND LEGAL ISSUES**

*Q.P. Code: 181979*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on: (2 x 15 = 30)**

1. Discuss various female fertility preservation: options and protocols.
2. Pre- implantation genetic testing (PGT): Discuss the evidence in ART treatment.

**II. Write notes on: (10 x 7 = 70)**

1. Ethics in third party reproduction.
2. Artificial intelligence in reproductive medicine.
3. Cross border reproductive care: pros & cons.
4. “Batch IVF programme” - Practical consideration.
5. Discuss the difference between WHO 2010 & WHO 2021 manual on semen analysis.
6. Role of Doppler studies in IVF treatment.
7. Role of Metabolomics in ART.
8. Kisspeptin use in Reproductive medicine.
9. Use of artificial intelligence in ART procedure.
10. Pros and Cons of New Surrogacy bill.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**(MCH 0124)**

**JANUARY 2024**

**Sub. Code: 1979**

**M.Ch. – REPRODUCTIVE MEDICINE AND SURGERY**

**PAPER IV – RECENT ADVANCES IN ASSISTED REPRODUCTIVE  
TECHNOLOGY / EMBRYOLOGY, ETHICAL AND LEGAL ISSUES**

*Q.P. Code: 181979*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on: (2 x 15 = 30)**

1. Describe the process of uterine transplant and discuss the ethical issues around the procedure.
2. Describe the surrogacy (regulation) act, 2021 and its implications on contemporary practice.

**II. Write notes on: (10 x 7 = 70)**

1. Discuss the effect of COVID vaccines on reproductive outcomes.
2. Discuss the strategy of oocyte accumulation for poor responders in IVF.
3. Describe the regulatory requirements for starting level II ART clinic as per ART law 2021.
4. Describe the regulatory requirements for starting ART bank as per ART law, 2021.
5. Discuss the role of stem cell therapy for thin endometrium.
6. Discuss the ethical aspects surrounding embryo disposition.
7. Discuss the fertility preservations options for adolescent boys.
8. Discuss the perinatal outcomes of pregnancies following surrogacy.
9. Discuss the predictive models for IVF outcomes.
10. Describe the automated vitrification method.

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