

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

(MCH 0822)

AUGUST 2022

Sub. Code: 1977

M.Ch. – REPRODUCTIVE MEDICINE AND SURGERY

Paper II – PRINCIPLES OF EMBRYOLOGY / ANDROLOGY AND ART

Q.P. Code: 181977

Time: Three Hours

Maximum: 100 Marks

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

1. Discuss about Quality control (QC) and Quality assessment (QA) in ART lab.
2. Poor ovarian reserve – What are the evidence-based strategies for management of poor responders?

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

1. Luteal support in IVF.
2. Role of hysteroscopy in Recurrent implantation failure (RIF).
3. CASA system in andrology lab.
4. Sequential versus Single culture media: What are the current implications?
5. Discuss the guidelines for setting up an IVF lab.
6. Critically analyse - Add-ons in ART lab.
7. Discuss about sperm selection options for ICSI.
8. AZF micro deletions.
9. Istanbul consensus on the morphological evaluation of the human embryo.
10. Medical management of oligozoospermia.

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

(MCH 0124)

JANUARY 2024

Sub. Code: 1977

M.Ch. – REPRODUCTIVE MEDICINE AND SURGERY

PAPER II – PRINCIPLES OF EMBRYOLOGY / ANDROLOGY AND ART

Q.P. Code: 181977

Time: Three Hours

Maximum: 100 Marks

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

1. Describe the time lapse technology and critically evaluate the evidence for its use in ART.
2. Critically appraise the evidence for “freeze all” strategies in contemporary practice.

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

1. Critically evaluate the evidence for assisted hatching in ART.
2. Discuss the role of progesterone primed ovarian stimulation protocols in ART.
3. Critically evaluate the evidence for Intra cytoplasmic injection (ICSI) for non-male factor infertility.
4. Discuss the role of platelet rich -plasma (PRP) in ART.
5. Discuss the role of physiological intracytoplasmic sperm injection (PICSI) in ART.
6. Discuss the management strategies for the POSIEDON 3 and 4 groups.
7. Discuss the impact of oocyte numbers on IVF outcomes with regards to ovarian stimulation strategies.
8. Critically appraise the evidence for screening hysteroscopy before IVF.
9. Quality control and quality assurance steps for incubators used for embryo culture in the IVF lab.
10. Critically evaluate the role of addition of Luteinizing hormone (LH) during controlled ovarian hyperstimulation (COH) in ART.
