

## Rajiv Gandhi University of Health Sciences, Karnataka

[Time: 3 Hours] [Max. Marks: 100]

## Clinical Embryology & Assisted Reproductive Technology (Embryology and Andrology) - PAPER – I OP Code: 4371

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

## Answer All The Questions

10 X 10 = 100 Marks

- Explain male reproductive systems and role of male reproductive hormones in reproduction.
- Explain different maturation stages of oocyte with diagram observed in vitro during IVF treatment.
- Write short note on PICSI and MACS.
- Explain in detail the zygote grading and blastocyst grading methods.
- 5. What is human embryo culture? Write pros and cons of pen vs close culture system.
- Explain the quality control in IVF lab. What are the KPIs in IVF ICSI program?
- 7. What is vitrification? What are the challenges in oocyte freezing over embryo freezing?
- 8. What are different causes of female infertility and how IVF technic help to treat them.
- What is endometrium receptivity index? How it can affect the results of IVF ICSI treatment.
- Answer the following :
  - i. Age limit of couple opting IVF in India according ART Act 2022
  - Explain the eligibility criteria for women to act as surrogate in India according to ART act 2022
  - iii. Define infertility.
  - iv. What is called as implantation failure?
  - Name any two buffer system used in IVF which do not require CO<sub>2</sub> to maintain their Ph.

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