**ST. JOSEPH’S UNIVERSITY, BENGALURU -27**

Registration Number:

Date & session:

**M.Sc (ZOOLOGY) – III SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2023**

**(Examination conducted in November/December 2023)**

**ZO 9223 –REPRODUCTIVE BIOLOGY**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 50**

**This paper contains TWO printed pages and FOUR parts**

**Illustrate the answers wherever necessary.**

**PART-A**

**Answer ALL of the following: 5 x 1 = 5**

1. The inner most layer of granulosa cells getting firmly attached to the zona pellucida is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Define ‘Capacitation’
3. Changes in the morphology of stromal cells and a progressive sprouting and ingrowth of capillaries is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Who should consider PGD?
5. What is Necrozoospermia?

**PART B**

**Answer ALL of the following 5 x 2 = 10**

1. Classify Tanner’s stages of puberty in females.
2. What are hormonal contraceptive methods?
3. What are the hormones that directly regulate the ovarian cycle?
4. What is Ferguson’s Reflex?
5. Name few biochemical contributions of seminal vesicles.

**PART C**

**Answer any THREE of the following 3 x 5 = 15**

1. Draw a neat labelled diagram of graafian follicle.
2. Define oestrous and menstrual cycles. How do they differ from each other.
3. Provide an outline of GIFT and ZIFT
4. Write a short note on biochemical components of semen
5. Explain the hormonal control of spermatogenesis

**PART D**

**Answer any TWO of the following 2 x 10 = 20**

1. Explain the process of selection and recruitment in Folliculogenesis.
2. Explain the procedure and complications involved in ICSI
3. Describe the events involved in the fertilization in humans

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