

# Rajiv Gandhi University of Health Sciences, Karnataka

## Fellowship Examination – 17-Feb-2025

**Time: Three Hours****Max. Marks: 100****ANDROLOGY - PAPER – I****QP Code: 4111**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

**Answer All The Questions****10 X 10 = 100 Marks**

1. Describe the structure of spermatozoa. Additionally provide a detailed account of the changes that occur in sperm during epididymal transit
2. Discuss the role of antioxidants in male infertility. Include both the potential benefits and drawbacks
3. Explain the multi-quadrant testicular sperm extraction (TESE) procedure and compare it with other sperm retrieval techniques
4. Outline the various sperm separation techniques used in assisted reproductive technology
5. Compare the WHO 5<sup>th</sup> and 6<sup>th</sup> edition guidelines for semen analysis, highlighting the key differences
6. Discuss the management of cryptorchidism in prepubertal, pubertal and adult males
7. Discuss testosterone replacement therapy (TRT), including routes of administration, indications, contraindications and potential side effects
8. Discuss ART (Assisted Reproductive Technology) laws and regulations governing fertility treatments
9. Discuss fertility preservation strategies in males
10. Genetic evaluation in male infertility

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