

**Write short notes on:**

1. Describe the process of spermatogenesis. What are the unique characteristics of spermatozoa? What is DFI (DNA Fragmentation Index)? 4+3+3
2. Describe endometrial receptivity. How endometrial receptivity can be enhanced in ART cases? 4+6
3. a) Enumerate congenital malformations of uterus and its impact on fertility. 5+5  
b) Role of hysteroscopy in these cases.
4. a) Ovarian causes of infertility. 4+6  
b) Management of PCOS infertile women.
5. a) Types of third party reproduction and indications. 3+3+4  
b) What are the different types of surrogacy?  
c) Discuss the guidelines (ICMR) for surrogacy in India? What is new surrogacy bill?
6. Write pathophysiology of OHSS and classification. Explain OHSS free "ART clinics". 6+4
7. How will you assess ovarian reserve? What are the recent IVF protocol in poor ovarian responders and Adjuvant therapy? 3+7
8. a) Write impact of obesity on reproductive outcome. 5+5  
b) Role of surgery for obesity prior to the management of infertility.
9. a) What are the indications of IUI? 3+3+4  
b) Discuss different techniques of surgical sperm retrieval.  
c) Management of azoospermia.
10. a) Discuss recurrent implantation failure. 3+4+3  
b) How would you evaluate these cases?  
c) Write about PGD & PGS.