**NORTH POINT SENIOR SECONDARY BOARDING SCHOOL, RAJARHAT**

**Class XII Science**

**Subject : Biology**

**Assignment on Chapter 3**

**Answer the following questions:**

**1. Draw a labelled diagram of the following;**

**(a) L.S. of Human Testis**

**(b) T.S. of Seminiferous tubule**

**(c) Human Male Reproductive System**

**(d) Human Sperm**

**2. Write the function of the followings:**

**Sertoli cells, Leydig's cell (Interstitial cells)**

**3. Write the function of the Accessory Reproductive Glands of Male.**

**4. What are the Human Male Reproductive Ducts?**

**5. Show Spermatogenesis through flow chart.**

**6. Define the term Spermiation?**

**7. What do you mean by Glans Penis and Urethral Meatus?**

**8. Mention the Ploidy status (haploid diploid or triploid) of the following cells:**

**(a) Spermatogonia (Sperm Mother Cell);**

**(b) Primary Spermatocyte**

**(c) Secondary Spermatocyte**

**(d) Spermatid**

**(e) Spermatozoa**

**(f) Anthropoid**

**9. Differentiate between (Two differences each):**

**(i) Vasa efferentia and Vas defferns**

**(ii) Spermatogenesis and Spermiogenesis**

**10. Write any three cause of any male being infertile.**

**11. Presence or absence of Hymen is not the reliable indicator of virginity. Justify.**

**12. Write any main eight differences between spermatogenesis and oogenesis.**

**13. Differentiate between: (two points each)**

**(a) Primary Oocyte and Secondary Oocyte**

**(b) Primary follicle and secondary follicle**

**(c) Primary Oocyte and Primary follicle**

**(d) Secondary follicle and Tertiary Follicle**

**(e) Granulosa cells​ and Theca cells**

**(f) Mammary tubule and Mammary duct**

**(g) Mammary duct and Lectiferous duct**

**(h) Corpus luteum and Corpus albicans**

**(i) Menarche and Menopause**

**14. Mention the most significant layer of uterine wall and justify it.**

**15. Show the flow chart to justify that males are responsible for sex determination in human.**

**16. Give the specific site of fallopian tube where fertilisation occurs.**

**17. Justify the followings:**

**(a) Proliferative phase / Follicular phase is also called as Regenerative phase.**

**(b) Luteal phase is also known as Secretory​phase.**

**18. What is the main identification of secondary follicle has transformed into Tertiary Follicle?**

**19. Why does corpus luteum dries and also mention the consequence of it?**

**20.How many primary occcytes or primary follicles are left in each ovary at puberty?**

**21.When sperm is called semen?**

**22.Mention any three important functions of Placenta.**

**23.What are the three hormones produced in women only during pregnancy?**

**24.Expand hCG and hPL.**

**25.What are the major features of embryonic development at various months of pregnancy?**

**26.Why germinal layers are also called as Stem cells or Totipotent cells?**