

# BIOLOGY

## HUMAN REPRODUCTION

1. Name the cells which secrete androgens.
2. What does the head of a sperm consists of ?
3. Name the structure which secretes progesterone.
4. Name the structures which secrete estrogen .
5. Name the site of fertilization in human beings .
6. What is the main function of Sertoli cells ?
7. Name the outermost layer of the blastocyst
8. What promotes completion of second meiotic division in oogenesis ?
9. Testes normally remain suspended in scrotum in mammals. Why?
10. How many spermatozoa will be produced from 100 primary spermatocytes and how many ova will be produced from 100 primary oocytes?
11. Name the three layers of embryo that give rise to all tissues and also name the cells which have the potency to give rise to all the tissues and organs.

13. What is ovulation? What happens to Graafian follicle after ovulation?

14. What is colostrum? What is its importance?

15. Draw a labeled diagram of the following and label six parts i) T.S. of a testes ii) T.S. of an ovary iii) Sperm iv) Ovum. v) Embryo development (vi) Female reproductive system

16. Mention any three differences between spermatogenesis and oogenesis.

17. Differentiate between Leydig cells and Sertoli cells with reference to their location in the organ and their function

18. What is parturition? How is it induced? Which hormones are involved in induction of parturition?

19. What is seminiferous tubule? Name the various types of cells present in it and explain its function.

20. Explain different phases of spermatogenesis with schematic representation.

21. Explain different phases of oogenesis with schematic representation

22. Name the glands associated with male reproductive organs and state their functions.

23. Explain the various phases of menstrual cycle with reference to changes in ovary and uterus and hormonal cycle.

24. Explain the process of fertilization.

25. Explain the stages of embryo development from fertilization to implantation.

26. Draw a diagrammatic presentation of various events during a menstrual cycle.

27. What is placenta? What is its role? Justify Placenta as an endocrine tissue.

28. What are the main features of embryonic development at various months of pregnancy?

29. Women are being blamed for giving birth to a female child. Is it correct to say that the sex of the child is determined by the woman and not by the man? Explain