



# INDIAN SCHOOL NIZWA - WORKSHEET

## BIOLOGY CH-3- HUMAN REPRODUCTION (BOARD QUESTIONS )

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: XII-A

1. Where does fertilization normally take place in human female?
2. Write the location and functions of myometrium and endometrium,
3. Write the effect of high concentration of LH on a mature Graafian follicle.
4. State the role of oxytocin in parturition. What triggers its release from the pituitary?
5. Why is breast feeding recommended during the initial period of an infant's growth? Give reasons.
6. After implantation interdigitation of maternal and foetal tissue takes place. Identify the tissues involved and justify their role.
7. Draw a sectional view of the seminiferous tubule of a human male
8. Explain the hormonal control of spermatogenesis in human male
9. Draw a labeled diagram of human blastocyst .How does it get implanted in the uterus?
10. Where does spermatogenesis take place in human testes? Describe the process of spermatogenesis up to the formation of spermatozoa. Schematically represent and explain the events of spermatogenesis in humans. Describe the change that occurs in ovaries and uterus during the reproductive cycle .
11. What is corpus luteum?
12. Why does failure of testes to descend into the scrotum produce sterility?
13. Name the layer of cells forming the outer wall of the blastocyst.
14. Which part of the blastula is destined to form the germ layers of the developing embryo in humans?
15. What harm is caused if the testes in human males fail to descend into the scrotal sacs?
16. During fertilization, hundreds of sperm cells are in the vicinity of an egg cell. But only one sperm enters the ovum. How is this achieved?
17. At what stage is the mammalian embryo implanted in the uterus?
18. What is spermiogenesis?
19. What is pregnancy hormone? Why is it so called? Name two sources of this hormone in a human female.
20. Describe the formation and the function of corpus luteum.
21. What structure forms the corpus luteum and at what stage? Name the two hormones secreted by it.
22. What is the main content of acrosomes? What is its function?
23. Differentiate between morula and blastula of mammals.
24. Briefly describe the stages of spermatogenesis in humans.
25. A sperm has just fertilized a human egg in the fallopian tube. Trace the events that the fertilized egg will undergo up to the implantation of the blastocyst in the uterus.
26. Describe the hormonal control of the reproductive system in human male.
27. What is menstruation? What are the specific actions of FSH, LH, estrogen and progesterone in the menstrual cycle?



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28. Study the sectional view of human testis showing seminiferous tubules given below. Answer the questions that follow.(diagram textbook page-44)

i)identify the parts

ii)write the functions of the parts

29. Explain the process of fertilization in human female, and trace the post-fertilization events in a sequential order upto implantation of the embryo.

30. Draw a labelled diagram of the microscopic structure of a human sperm.

31. Study the illustration given below and answer the questions that follow(ovum): TB page no 51

i)identify 'a'.

ii)name and state the function of 'c'.

iii)identify 'd'.

iv)explain the role of hormones in the formation and release of 'a'.

v)draw a diagram of 'b' separately and label the parts:

-that helps its entry into 'a';

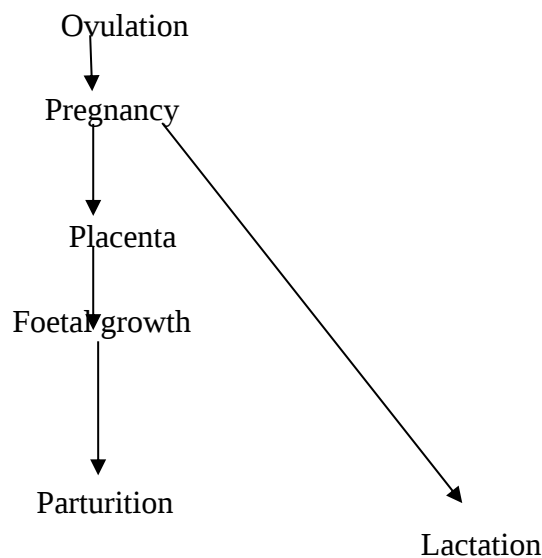
-that carry genetic material;

-that helps in its movement.

24. Draw a sectional view of human ovary and label i)primary follicle ii) Graafian follicle

iii)corpus luteum

32. Study the flow chart given below. Name the hormones involved at each stage and explain their role.



33. During the reproductive cycle of a human female, when, where and how does a placenta develop? What is the function of placenta during pregnancy and embryo development?

34. Explain the menstrual phase in human female .state the levels of ovarian and pituitary hormones during this phase .Why is follicular phase in menstrual cycle also referred as proliferative phase? Explain.

35. Explain the events that occur in a Graafian follicle at the time of ovulation and there-after. Draw Graafian follicle and label antrum and secondary oocyte.