INDIAN SCHOOL NIZWA

BIOLOGY-WORKSHEET -3

CH.3 REPRODUCTION IN HUMANS

DATE: _____ NAME:_____ CLASS: XII

Q1. Answer the following questions(1 mark)

1. Where does fertilization normally take place in human female?
2. What is corpus luteum?
3. Why does failure of testes to descend into the scrotum produce sterility?
4. Name the layer of cells forming the outer wall of the blastocyst.
5. Which part of the blastula is destined to form the germ layers of the developing embryo in humans?
6. What harm is caused if the testes in human males fail to descend into the scrotal sacs?
7. 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?
8. At what stage is the mammalian embryo implanted in the uterus?
9. What is spermiogenesis?
10. What is pregnancy hormone? Why is it so called? Name two sources of this hormone in a human female.
11. Describe the formation and the function of corpus luteum.
12. What structure forms the corpus luteum and at what stage? Name the two hormones secreted by it.
13. What is the main content of acrosomes? What is its functions?
14. Differentiate between morula and blastula of mammals.
15. Briefly describe the stages of spermatogenesis in humans.
16. A sperm has just fertilised a human egg in the fallopian tube. Trace the events that the fertilised egg will undergo upto the implantations of the blastocyst in the uterus.
17. Describe the hormonal control of the reproductive system in human male.
18. What is menstruation? What are the specific actions of FSH, LH, estrogen and progesterone in the menstrual cycle?
19. Study the sectional view of human testis showing seminiferous tubules given below. Answer the qwestions that follow.(diagram textbook page-44)

    i)identify a, b and c.

ii)write the functions of a and d.

20. Explain the process of fertilization in human female, and trace the post-fertilization events in a sequential order upto implantation of the embryo.
21. IARI has released several varieties of crop plants that are biofortified. Give three examples of such crops and their biofortifications.
22. Draw a labelled diagram of the microscopic structure of a human sperm.
23. Study the illustration given below and answer the questions that follow(ovum):
    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)graffian follicle
    iii)corpus luteum
24. Study the flow chart given below. Name the hormones involved at each stage and explain their role.

