

Biology

Q.1. (a) Draw a labelled diagram of the human female reproductive system.

(b) Enumerate the events in the ovary of a human female during:

(i) Follicular phase

(ii) Luteal phase of menstrual cycle.

Q.2. (a) Write the specific location and the functions of the following cells in human males:

(i) Leydig cells

(ii) Sertoli cells

(iii) Primary spermatocyte

(b) Explain the role of any two accessory glands in human male reproductive system.

Q. 3. When and where are primary oocytes formed in a human female? Trace the development of these oocytes till ovulation (in menstrual cycle).

How do gonadotropins influence this developmental process?

Chemistry

Topic : Chemical properties of haloalkanes.

1. State and explain Wurtz reaction .

2. What is Grignard reagent ? Explain with suitable examples .

3. Write short notes on :

a) Reduction reaction of haloalkanes.

b) Reaction of haloalkanes with metals like Na and Mg.