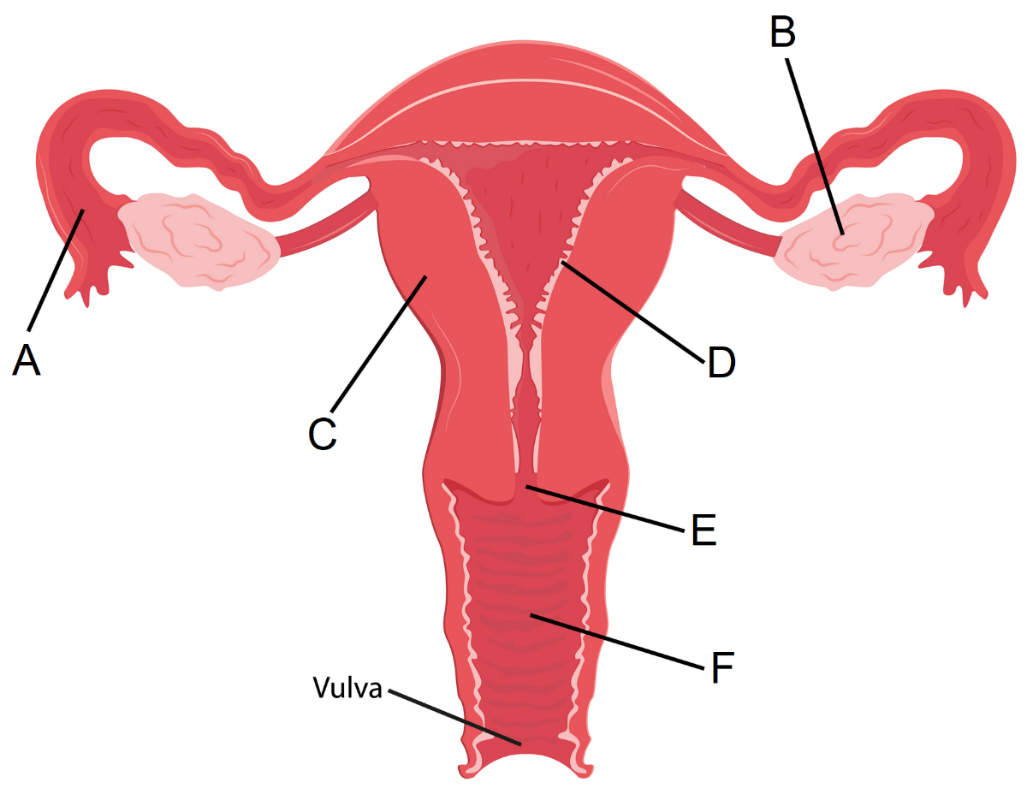
|  |  |  |
| --- | --- | --- |
| *Need to know* | *Content* | *Yes/No* |
| *Process of inspiration* |  |  |
| ***Chemical process*** *– that produces ATP – Krebs cycle and glycolysis* |  |  |
| *The process of phagocytosis – endocytosis* |  |  |
| *Difference in recessive and dominant genetic conditions* |  |  |
| *Difference in autosomal and X-linked genetic conditions* |  |  |
| *Constructing Punnett squares to predict offspring* |  |  |
| *Labelling of the digestive system* |  |  |
| *Explain the process of deamination – how the liver removes an amino group* |  |  |
| *Differentiate between mechanical and chemical digestion* |  |  |
| *Define cancer and how growing tumours can affect organs* |  |  |
| *How pancreatic cancer can affect digestion and absorption* |  |  |
| *Explain the process of transcription (location)* |  |  |
| *Explain the process of translation (location)* |  |  |
| *Describe the structure of protein* |  |  |
| *Explain what an autosomal genetic condition is (recessive and dominant)* |  |  |
| *Labelling of a blastocyst (refer to image)* |  |  |
| *List, define and provide examples of the 3 embryonic germ layers (refer to image)* |  |  |
| *Explain the structure of chromatin* |  |  |
| *Describe the two factors that affect gene expression*  ***Methylation and acetylation*** |  |  |
| *Explain each process of mitosis (PMAT)* |  |  |
| *Labelling of the female reproductive system and the function of each structure* |  |  |
| *Contrast bacterial and viral STI’s (provide examples e.g gonorrhoea)* |  |  |
| *List and explain methods that prevent STI’S* |  |  |
| *Explain the process of fertilization (1-8 days)* |  |  |
| *Explain and provide ‘events’ that occur in the 3 stages of labour* |  |  |
| *Explain foetal circulation in detail (outline the differences)* |  |  |
| *Explain the structure of compact bone at a microscopic level* |  |  |
| *Describe the structure and function of the different types of cartilage* |  |  |
| *Explain the structure of synovial joints (range of movement)* |  |  |
| *Explain the hormones that regulate the male and female reproductive system (female – ovarian and menstrual cycle)* |  |  |
| *Describe the combined pill and the ‘morning’ after pill, and the effects they have on the ovarian and menstrual cycles* |  |  |
| *Explain the structure of DNA (bases, phosphate group, deoxyribose sugar)* |  |  |
| *Explain DNA replication (amoeba sister video)* |  |  |
| *Processes that occur during meiosis that lead to variation*   * *Crossing over, Random assortment and non-disjunction* |  |  |



Diagram

Description automatically generated