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**MATRIC NO: 18/MHS07/045**

**DEPARTMENT: PHARMACOLOGY**

**QUESTION: CONVID-19 is the ongoing viral pandemic in the world and the reason you are at home. Discuss the anatomical implication of this virus on the respiratory system of human.**

**ANSWER**

What is convid-19?

It is an illness caused by a novel corona virus, according to WHO it is the infectious disease caused by the recently discovered corona virus. This new virus and disease outbreak began in Wuhan, china, in December 2019

What are the anatomical implications of the convid-19?

Once the virus is inside body it begins to infect the epithelial cells lining the respiratory tract the virus uses a distinctive spike protein to hijack cells virus can attach to the host cells receptors by making and penetrate the cells which leads to the replication of the virus till it kills the cell this is done by the presence of the virus RNA in the cell and this first takes place in the upper respiratory tract which include the nose, mouth, larynx and bronchii it has the same effect on the lungs it mainly affects the air sacs of the lungs (alveoli) by releasing new copies which affect neighboring cells in the alveolus the process can occur initially without a person being aware of the infection in the lungs which The process of hijacking causes inflammations in the lungs which trigger immune response as this process unfolds fluid begins to accumulate in the alveoli causing dry cough and making breathing difficult the immune systems response to the inflammation known as cytokine storm this response will cause more damage to the body’s own cells than the virus . According to researchers in the early stage of the disease the lungs exhibit edema, liquid proteinacous secretions, fibrous tissue lesions with patchy inflammation and multinucleated giant cells.