

1. Please describe various serological and molecular methods used to identify the bacterial agents responsible for infection. (20%)
2. Please describe the Koch's postulates. (10%)
3. Please describe the mechanisms used by bacteria to escape host immune responses. (20%)
4. Please describe the mechanisms used by oncogenic viruses to transform or immortalize cells. (20%)
5. Please describe how various viruses synthesize their genomes during replication. (20%)
6. Please describe the defense mechanisms used by humans to control viral infections. (10%)