LONG ESSAY (These questions carry YV marks each).com

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- 1. Discuss the renal functional maturation from fetal life to the newborn.
- 2. Discuss the role of Kidney in maintain sodium homeostasis.
- Compare and contrast whole genome sequencing with whole exome sequencing and its clinical applications.
- Discuss the utility of podocytes cell line in understanding pathobiology of Kidney disease and indentifying therapeutic targets in Kidney diseases.
- Discuss the various equations for estimating GFR and the challenges in using them in a clinical setting.
- Discuss the molecular mechanisms and the corresponding clinical phenotype of Bartter's syndrome.
- 7. Discuss the application of clinical pharmacogenomics in nephrology.
- Discuss the molecular basis of monogenic hypertension.
- Discuss the grading of evidence in used in development of guidelines for evaluation and management of Kidney Diseases.
- Write a note on renal tubular dysgenesis.

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