BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI DEPARTMENT OF PHARMACY

Comprehensive Examination- December 2022 Cellular and Molecular Pharmacology PHA G625 (Closed Book)

Weightage: 35% Duration: 180 Mins Date: 19/12/2022

Instructions:

- ✓ Write correct and precise answer.
- ✓ No spelling mistakes.
- ✓ Marks will only be given to correct and well explained answer and not to partial answers.
- ✓ Write in clear and legible handwriting.
- 1. Define the term Epigentics and Epigenomics. Explain the role of epigenomics in understanding the β -cells & metabolism and complications.
- Explain the significance of protective axis of renal angiotensin system using in vivo studies to
 prove its protectiveness in type II diabetic renal dysfunction with the help of experimental
 molecules.

 10M
- "Essential hypertensive patients treated with AT1 receptor blockers regresses structural and functional abnormalities of the vascular wall suggest that Ang II plays a critical role in abnormal behavior of vascular cells in hypertension". Explain role of Ang II in the structural remodeling under hypertensive condition.
- 4. What you understand from the below picture? Write your observations and conclusions from the pictures and what experiments you will do to achieve this? Explain in detail. **10M**

