**BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI**

**Pharmacology-II (PHA F341)**

**END Semester Examination (CLOSED BOOK)**

**Date: 03/05/2017 Weightage: 20% Marks: 20M**

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**Instructions: Write correct and precise answers (No Spelling Mistakes). Writing YES/No or name of the drug, is not sufficient to get marks, you have to justify the YES/NO or name of drug. Marks will only be given to correct and well explained answer and not to partial answers. Draw the diagrams wherever is desirable/essential.**

1. Sildenafil potentiates the action of the nitrates. Justify the statement with suitable explanation. 1M
2. Explain the calcium entry in the vascular smooth muscle cell with the suitable agonist. 2M
3. Explain the endogenous mechanisms which inhibit the platelet aggregation. Explain different approaches for preventing platelet aggregation with suitable example.

4M +3M

1. Type 2 diabetes is considered to be a life style disorder. In this context:
2. Explain the concept of "Pre-Diabetic Stage" with respect to Insulin Sensitivity. 1.5M
3. Explain the progress of a person from a pre-diabetic stage to a chronic type 2 diabetic patient with the help of Insulin and glucose levels. 3M
4. Explain in detail how the glucose causes the release of Insulin from β cells and mechanism of action of sulfonylurea? 2M +1.5M
5. Write the therapeutic Approaches used to treat hyperlipidemia and peptic ulcers with suitable examples of drugs. 2M+2M