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Roll No

PY - 605**B.Pharmacy VI Semester**

Examination, June 2017

Pharmacology - III*Time : Three Hours**Maximum Marks : 70*

- Note:** i) Solve any five questions of the following.
 ii) Draw neat, labelled diagrams/illustrations wherever necessary.
 iii) Figures to right indicate marks.

1. a) What is insulin? With the help of a schematic diagram explain the changes in signal transduction pathways that occur in diabetes. 3+4
 b) Classify oral hypoglycemic agents with two examples each. 4
 c) Comment on glucagons. 3
2. a) Enlist hormones secreted by hypothalamus and pituitary gland and describe their principal functions. 7
 b) Write in detail the clinical uses of octreotide and leuprolide. 7
3. a) Describe the pathophysiology of erectile disfunctions. 7
 b) Explain the pharmacology of sildenafil. 7

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4. a) Explain the basic mechanism of contraception. 4
 b) Classify drugs affecting calcium balance. 5
 c) Write a note on corticosteroids. 5

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5. a) Classify the drugs acting on urinary system. 7
 b) Give the contra-indications for the use of furosemide and amiloride. 4
 c) Enlist the uses of carbonic anhydrase inhibitors. 3

6. a) Describe the pathophysiology of hyperlipidaemia. 7
 b) Explain the clinical uses of warfarin and vitamin B₁₂. 7

7. a) Classify antiarrhythmic drugs with examples. 7
 b) Describe pathophysiology of angina. 4
 c) Write mechanism of action of cardiac glycosides. 3

8. Write short notes on ANY THREE of the following: 14
 a) α - Methyl dopa
 b) Esmolol
 c) Plasma expanders
 d) Urokinase

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