

July - 2018.

17PHD10

BLDE (DEEMED TO BE UNIVERSITY)

Pre – Ph.D Course Work Examination

Paper II: BACKGROUND PAPER - PHARMACOLOGY

QP CODE - 6017

Duration: 1 ½ Hrs

Max Marks: 50

I Answer the following

5 x 2 = 10 Marks

1. Enumerate the Hormones of Pancreas.
2. Enumerate the stimulants of Insulin release in humans.
3. How is Insulin degraded in humans?
4. Enumerate pharmacological properties of Flavonoids.
5. Enumerate endogenous anti-oxidants.

II Answer ANY FOUR of the following

4 x 5 = 20 Marks

6. Describe the chemistry of Insulin.
7. Describe in brief glucose transporters.
8. Describe the mechanism of action of metformin.
9. Describe the role of Flavonoids as anti-oxidants.
10. Describe role of reactive oxygen species in cell signaling & Homeostasis.

III Answer ANY TWO of the following

2 x 10 = 20 Marks

11. Classify Insulin. Describe the mechanism of action and adverse effects of Insulin.
12. Describe current research and trends on Flavonoids.
13. Describe the role of anti-oxidants in health & disease.

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I Answer the following

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1. Enumerate Insulin Analogs.
2. Enumerate the Inhibitors of Insulin release in humans.
3. Enumerate tissue damaging free radicals.
4. Enumerate Glucose transporters.
5. Enumerate the drug causing Osteoporosis.

II Answer ANY FOUR of the following

4 x 5 = 20 Marks

6. Describe mechanism of action of Insulin.
7. Describe the benefit of Glycemic control in diabetes mellitus.
8. Describe the mechanism of action of sulfonylureas.
9. Describe the mechanism of action of Vit. D.
10. Describe the patho- physiological role of free radicals.

III Answer ANY TWO of the following

2 x 10 = 20 Marks

11. Classify oral anti-diabetic drugs. Describe mechanism of action and pharmacological actions of metformin.
12. Describe the pharmacological actions and adverse effects of Insulin.
13. Describe the secondary hormonal regulation of bone mineral Homeostasis.