

Nov. 2013

BLDE UNIVERSITY

PRE –Ph.D COURSE WORK EXAMINATION

PAPER – II: BACKGROUND PAPER (PHYSIOLOGY)

QP CODE : 6002

Duration : 1 ½ Hrs

Max.Marks : 50

**I. Answer the following**

5 x 2 = 10 Marks

1. Oxygen debt.
2. Body Mass Index.
3. Vasovagal Syncope.
4. Enumerate Hyperglycemic hormones.
5. Glycosylated Hemoglobin.

**II. Answer ANY FOUR of the following**

4 x 5 = 20 Marks

6. Calorimetry.
7. G Protein.
8. Insulin receptor.
9. Endothelin.
10. Visfatin.

**III. Answer ANY TWO of the following**

2 X 10 = 20 Marks

11. Discuss various regulatory mechanisms of arterial blood pressure. Add a note on Essential Hypertension.
12. Explain etiopathogenesis and consequences of obesity.
13. Discuss source, synthesis and actions of Insulin. Add a note on Diabetes Mellitus.

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I. Answer the following

5 X 2 = 10 Marks

1. Vagal tone
2. Buffer nerves
3. Myoglobin
4. Ejection fraction
5. Vo<sub>2</sub> max

II. Answer ANY FOUR of the following

4 X 5 = 20 Marks

6. Venous return
7. J- receptor
8. Effect of sympathetic nerve stimulation to heart
9. Role of kidney in regulation of B.P.
10. Horner's syndrome

III. Answer ANY TWO of the following

2 X 10 = 20 Marks

11. Effect of yoga practises on diseases.
12. Cardiac output- regulating factors & role of yoga
13. Physiology of Yoga & its long term effect

5+5

5+5