NOV. 2012

BLDE UNIVERSITY

Pre – Ph.D Course Work Examination

Paper II : Background Paper (Biochemistry)

QP CODE - 6016

Duration : 1 ½ Hrs **Max Marks : 50**

I. Answer the following **5X2=10 Marks**

1. Apelin
2. Leptin
3. Ghrelin
4. IGF – 1
5. ANP

II. Answer ANY FOUR of the following **4X5= 20 Marks**

6. H-FABP as a point of care test in AMI
7. Cardiac troponins
8. Homocysteine
9. Genomic organization and complete nucleotide sequence of H-FABP
10. Biochemical markers for super acute phase of AMI

III. Answer ANY TWO of the following **2X10= 20 Marks**

11. Discuss the differential diagnosis of chest pain
12. Discuss the etiology of ischemic heart disease (IHD)
13. Discuss the clinical features, complications, investigations and management of AMI. (ST elevation myocardial infarction – STEMI)

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Pre – Ph.D Course Work Examination

Paper II : Background Paper (Biochemistry)

QP CODE - 6018

Duration : 1 ½ Hrs **Max Marks : 50**

I. Answer the following. **5 x 2 = 10 Marks**

1. What is adiponectin?
2. Define hyperlipidemia and dyslipidemia?
3. Name various worldwide organizations working on Diabetes? Which are the Indian Organizations?
4. What is the purpose of your study?
5. What is modified ATP III Criteria?

II. Answer any four of the following. **4 x 5 = 20 Marks**

6. Explain the epidemiology of metabolic syndrome.
7. How did you select your sample size?
8. Enlist the anthropometric parameters in your study with their significance.
9. Explain the pathophysiology of metabolic syndrome.
10. What is the rationale of your study?

III. Answer any two of the following. **2 x 10 = 20 Marks**

11. Explain in detail the research methodology of your work.
12. Justify how your study will be beneficial.
13. Give various criteria for the diagnosis of metabolic syndrome.

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Pre – Ph.D Course Work Examination

Paper II : Background Paper (Biochemistry)

QP CODE - 6019

Duration : 1 ½ Hrs **Max Marks : 50**

I. Answer the following. **5 x 2 = 10 Marks**

1. What is the purpose of your study?
2. What are fibrinolytic enzymes? Give examples.
3. What are the sources of fibrinolytic enzymes?
4. What are the objectives of your study?
5. Give the hypothesis of your study.

II. Answer any four of the following. **4 x 5 = 20 Marks**

6. How will you characterize the proteins obtained in your study?
7. Explain the effect of various factors on the activity of enzymes of your interest.
8. Explain the other research studies from India relevant to your study.
9. Give the blood clotting pathway. .
10. Give the Historical background of Nattokinase?

III. Answer any two of the following. **2 x 10 = 20 Marks**

11. Explain in detail the research methodology of your work.
12. Explain various biochemical techniques necessary for your study.
13. Explain in detail how your study will be beneficial in the medical field?