BLDE (DEEMED TO BE UNIVERSITY)

Duration: 1 1/2 Hrs.

Max Marks: 50

Pre-Ph.D. Course Work Examination

Paper II: BACKGROUND PAPER (Biochemistry)

QP CODE - 6016

I. Answer ANY TWO of the following

 $2 \times 10 = 20 \text{ Marks}$

- 1. Write in brief about growth factor receptor pathways
- 2. Write in brief about Quantitative RT-PCR technique
- 3. What is the role of angiogenesis in breast cancer development and metastasis?

II. Answer ANY FOUR of the following

 $4 \times 5 = 20 \text{ Marks}$

- 4. Open biopsy
- 5. Epigenetic alterations in Breast Cancer
- 6. ERR Pathway
- 7. Describe in brief about mechanism altering miRNA expression in Breast Cancer
- 8. Write in brief about IHC technique

III. Answer the following

 $5 \times 2 = 10 \text{ Marks}$

- 9. Ionizing radiation
- 10. Mammography
- 11. BRCA1 and BRCA2
- 12. TNM staging system for breast cancer
- 13. HER-2

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OP CODE - 6016

Answer ANY TWO of the following Ţ.

 $2 \times 10 = 20 \text{ Marks}$

- 1. Write in detail about recent advances in molecular diagnostics.
- 2. Explain in detail about the role of hepcidin in iron metabolism
- 3. What is ELISA? Explain Different types of ELISA with principle, and applications.

Answer ANY FOUR of the following II.

 $4 \times 5 = 20 \text{ Marks}$

- 4. Cognitive impairment in iron overload
- Intracellular iron trafficking and transportation.
- Signs and symptoms of Beta Thalassemia
- 7. Heme catabolism
- 8. Reelin Gene

Answer the following III.

 $5 \times 2 = 10 \text{ Marks}$

- 9. What is bilirubin?
- 10. What are antioxidants? Give two examples.
- 11. What is MDA? Name the method for its estimation.
- 12. What is importance of MAO?
- 13. What are hemoglobinopathies?