

**The West Bengal University of Health Sciences**  
**M.D. (Pathology) May - June, 2022 Examination**

**Paper: I**

**Full Marks: 100**

**Time: 3 Hours**

*Attempt all questions*

1. Describe the pathogenesis of DIC. 10
2. Write short notes on: 5+5
  - a) Discuss the molecular basis of single gene disorders
  - b) Pathogenesis of Klinefelter syndrome
3. Classify cytokines and discuss briefly their properties and functions. 10
4. Write short notes on: 5+5
  - a) Role of angiogenesis in development of malignancy
  - b) Role of growth factors in tissue repair
5. Smoking causes lung cancer – Justify. 10
6. Discuss assessment of hormonal status in vaginal smears. 5+5
7. Write short notes on: 5+5
  - a) Pathogenesis of autoimmunity
  - b) Laboratory diagnosis of SLE
8. Pathogenesis and laboratory diagnosis of amyloidosis. 10
9. Write short notes on: 5+5
  - a) Heat shock proteins
  - b) Secondary leukemia
10. Write clinical applications of: 5+5
  - a) Flow cytometry
  - b) PCR