

- 2** Comment/Explain any three of the following : **15**
- (a) Clinical samples are collected by various methods.
 - (b) Serum glucose level can be determined by many methods.
 - (c) Gene cloning is an advance diagnostic tool.
 - (d) Determination of resistogram is important to decide treatment of many diseases.
 - (e) Many spectrophotometric methods are used for quantitative analysis of clinical samples.
- 3** Write an essay on : **10**
- "Blood transfusion and Blood Bank"
- OR**
- "Haematological Analysis of Blood samples and its significance in diagnosis."
- 4** Attempt any two of the following : **16**
- (a) Write down the basic principle underlying thermal cycle and give its applications in diagnosis.
 - (b) Which are anticoagulants used for the blood creature technique? Describe the technique in detail.
 - (c) Write the procedure for determination of MBC and MIC.
 - (d) Enlist the blood components used for the haemotherapy. Discuss the merits and demerits for their transfusion.
- 5** Write short notes on any three of the followings : **15**
- (a) Emission Vs Absorption flame photometer
 - (b) Bacteriological analysis of CSF
 - (c) Probe labelling
 - (d) Kidney function tests
 - (e) Casts and crystals present in urine.