

17544

11819

2 Hours / 50 Marks

Seat No.

--	--	--	--	--	--	--	--	--

- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.

- | | Marks |
|---|--------------|
| 1. (A) Attempt any THREE : | 12 |
| (a) State Beer & Lambert's Law. | |
| (b) State importance of sterilization and list any four sterilizing equipments. | |
| (c) Draw a neat labelled diagram of dark field blood cell counter. | |
| (d) List any four parts of electron microscope. | |
| (B) Attempt any ONE : | 6 |
| (a) Identify the equipment which is used to measure dissolved gases present in blood. Also draw its neat diagram. | |
| (b) List any two applications and any two technical specifications for the following equipment : | |
| (i) Autoclave | |
| (ii) Incinerator | |

2. Attempt any FOUR :**16**

- (a) Define : (i) chromatography (ii) electrophoresis.
- (b) Draw constructional diagram of electro-conductive blood cell counter.
- (c) What is centrifuge ? Explain its working principle with neat diagram.
- (d) Draw a constructional diagram of flame photometer and describe it.
- (e) List any four technical specifications of blood gas analyser.
- (f) With neat diagram explain the working of gas chromatography.

3. Attempt any FOUR :**16**

- (a) List any four instruments based on Beer & Lambert's Law.
 - (b) With neat diagram explain working of Hot air oven.
 - (c) With neat diagram explain the working of capillary electrophoresis.
 - (d) List any four technical specification of spectrophotometer and flamephotometer.
 - (e) Draw neat constructional diagrams of
 - (i) Colorimeter
 - (ii) Ultrasonic cleaner
-