

N-55042 Seat No. _____
M. Sc. (Part-I) Examination
April / May – 2003
Biomedical Technology : Paper-III
(Haematology & Parasitology)

Time : 3 Hours]

[Total Marks : 75

NB: All questions carry equal marks.
All questions are compulsory.
Illustrate your answers with neat diagrams wherever necessary

1. Write an account on: a). Blood group determination techniques
b). Investigations of disseminated intravascular coagulopathy

OR

1. Write an account on: a). Estimation of white cell count. Classification of Leukaemias.
b). Tapping of a blood donor and steps taken to manage hypotension during blood donation.
2. Describe: a). Investigations of β -Thalassaemia.
b). Prothrombin time and its interpretation.

OR

2. Describe: a). Investigations of Iron deficiency anaemia
b). Preparation of FFP, its shelf life, storage temperature and clinical use.
3. Write notes on: a). Types of Plasmodium parasites.
b). Life cycle of *Trypanosoma gambiense*.

OR

3. Write notes on: a). General characters of Trematodes and explain the distinguishing features of Schistosomes.
b). Write the names of 5 bacterial diseases. Explain the general characters of pathogens.
4. Describe: a). Life cycle of *Taenia solium*.
b). Life cycle of *Entamoeba histolytica*

OR

4. Describe: a). Parasitic adaptations
b). Classification and general characters of Helminths.
5. Write short notes on **any three** of the following:
 - a). Osmotic fragility test
 - b). Quality control for blood group sera
 - c). Lee and White clotting time
 - d). HIV virus
 - e). *Wuchereria bancrofti*
 - f). Morphological forms of haemoflagellates