## BACHELOR OF SCIENCE (CBCS-2018 COURSE) T. Y. B. Sc. Sem-V : WINTER- 2022 SUBJECT : MICROBIOLOGY : CLINICAL PATHOLOGY

Day: Friday Time: 02:00 PM-05:00 PM Date: 9/12/2022 W-18431-2022 Max. Marks: 60 ..... N. B.: All questions are **COMPULSORY**. 1) Figures to the right indicate FULL marks. 2) 3) Draw neat and labelled diagrams WHEREVER necessary. 0.1 Attempt **ANY TWO** of the following: (12)What are procoagulants? Describe the nomenclature of procoagulants. a) What is 'Rh blood grouping system'? Comment on 'Rh-incompatibility'. Define the term 'Jaundice' and comment on 'Congenital jaundice'. Attempt ANY TWO of the following: (12)Q. 2 What is 'Schizophrenia'? Discuss the 'Lipid hypotheses for development of a) Schizophrenia. **b)** Explain the cytology and significance of Neutrophils. Discuss the formation of 'platelet plug' and mention its significance. Attempt ANY TWO of the following: (12)Q. 3 a) Justify the statement that, 'Docosahexaenoic acid play significant role in the normal functioning of human brain, retina, lymphocytes and enzymes'. b) Describe 'Extrinsic pathway' for blood coagulation process. c) Explain the cytology and significance of 'Natural Killer cells'. Write short notes on **ANY THREE** of the following: (12)O. 4 a) Aspartate transaminase test. b) Phenol sulfonaphthalein test. c) LDL cholesterol d) Hepatocellular jaundice (12)Attempt ANY FOUR of the following: Q. 5 a) Enlist common anticoagulants used in diagnostic laboratories. b) Comment on 'ABO blood grouping system'. c) Give the principle and use of 'Van Den Bergh Test'. d) Enlist plasma electrolytes and mention their normal level (concentration) in

\* \* \* \* \*

Justify the statement that 'hemoglobin regulates Bohr's effect and acts as a

Explain the role of macrophages as 'Antigen Presenting Cells' (APC's).

human blood.

buffer in peripheral blood circulation.