

T.Y.B.SC. SEM – V (CBCS - 2016 Course) : SUMMER - 2019
SUBJECT: MICROBIOLOGY: CLINICAL PATHOLOGY

Day: Friday
Date: 12/04/2019

Time: 11.00 A.M. To 02.00 P.M.
Max. Marks: 60

S-2019-0861

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.

Q.1 Attempt **ANY TWO** of the following: **(12)**

- a) Explain 'Intrinsic Pathway' for blood coagulation.
- b) What is 'Rh-incompatibility'? Explain any one method for diagnosis of HDN.
- c) Explain the role of transport proteins and enzymes in 'Bilirubin Metabolism'.

Q.2 Answer **ANY TWO** of the following: **(12)**

- a) What is 'Docosahexanoic acid'? Explain its clinical significance.
- b) Enlist properties of 'Hemoglobin' in the context of its clinical significance.
- c) Differentiate between 'Conjugate Bilirubin' and 'Unconjugated bilirubin'. Also mention the principle of 'Van Den Bergh Test'.

Q.3 Attempt **ANY TWO** of the following: **(12)**

- a) Explain cytology and functions of 'Basophils'.
- b) Discuss cholesterol with respect to following:
 - i) Bad cholesterol
 - ii) Beneficial aspects of so called 'Bad Cholesterol'
 - iii) Good cholesterol
- c) Discuss cytology and functions of 'NK cells'.

Q.4 Write short notes on **ANY THREE** of the following: **(12)**

- a) SGPT
- b) Creatin Clearance Test
- c) ABO blood grouping system.
- d) Warfarin

Q.5 Attempt **ANY FOUR** of the following: **(12)**

- a) Describe 'Eosinophils'
- b) What is 'blood banking'? Mention the types of officially approved blood banks for community health services.
- c) Justify the statement that, 'Thrombin is multifunctional Procoagulant'.
- d) Enlist symptoms of 'Schizophrenia' which arose as a result of disorder in lipid metabolism.
- e) What is 'Urea clearance test'? Give its significance.
- f) Explain 'Hepatocellular Jaundice'.