

**T. Y. B. Sc. SEM-V (CBCS-2016 COURSE): WINTER- 2018**  
**SUBJECT: MICROBIOLOGY: CLINICAL PATHOLOGY**

**Day:** Friday  
**Date:** 12/10/2018

**Time:** 03.00 P.M. To 06.00 P.M  
**Max. Marks: 60**

**W-2018-0742**

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**N.B:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
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**Q.1** Attempt **ANY TWO** of the following: **(12)**

- a) Explain 'Extrinsic pathway' for blood coagulation.
- b) Give types of 'Blood Banks' and comment on 'Blood Banking'.
- c) Explain the transformation phases of bilirubin to unconjugated and conjugate forms.

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

- a) What is 'LDL cholesterol'? Give its diagnostic significance.
- b) Describe the significance of plasma electrolytes.
- c) Explain principle, method and significance of 'Van Den Bergh Test'.

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

- a) Explain cytology and functions of 'Eosinophils'.
- b) Justify the statement that, 'lipid environment in the brain regulates Schizophrenia'.
- c) Describe anticoagulants used in laboratories.

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

- a) Cytology of 'Neutrophils'
- b) Nomenclature of procoagulants
- c) Obstructive jaundice
- d) SGOT

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

- a) Explain the use of heparin and warfarin for clinical treatment of thrombus formation.
- b) Explain 'ABO blood grouping system'.
- c) Describe macrophages.
- d) How Bohr's effect justifies clinical significance of hemoglobin molecule? Also mention the role of histidine and proline amino acids, in the peptide chains of hemoglobin.
- e) Why 'NK cells' are considered as special component of immune system?
- f) What is 'Bromosuphalin Excretion test'? Give its significance.

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