

**T.Y.B.SC. SEM – V (2014 Course) : WINTER - 2018**

**SUBJECT: MICROBIOLOGY: VIROLOGY**

Day : Monday  
Date : 15/10/2018

Time: 12.00 NOON TO 02.00 PM  
Max. Marks: 40.

**W-2018-0841**

---

**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate full marks.
  - 3) Draw neat labeled diagrams **WHEREVER** necessary.
- 

**Q.1** Attempt any **TWO** of the following: (10)

- a) Explain the basis of viral classification.
- b) Write details of Latex-droplet method.
- c) Explain Doermann's experiment.

**Q.2** Attempt any **TWO** of the following: (10)

- a) Explain the structure of Adenoviruses.
- b) Describe Plaque and pock method.
- c) Explain complementation test.

**Q.3** Attempt any **TWO** of the following: (10)

- a) Explain sub-viral infectious agents.
- b) Write short note on purification of viruses.
- c) Explain reproduction of TMV.

**Q.4** Write in short on any **FIVE** of the following: (10)

- a) Viroids
- b) Enveloped viruses
- c) TCID<sub>50</sub>
- d) C<sub>1</sub> protein
- e) Haemagglutination
- f) Satellite viruses
- g) End point dilution assay

\* \* \*