



JB-3104
Second Year B. Sc. (Microbiology)
(Sem. III) Examination
March/April – 2013
MB-07 : Virology

Time : Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दृशावेव निशानीवाणी विगतो उत्तरवाडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>S. Y. B. SC. (MICROBIOLOGY) (SEM. 3)</p> <p>Name of the Subject :</p> <p>MB-07 : VIROLOGY</p> <p>Subject Code No. : 3 1 0 4 Section No. (1, 2,.....): Nil</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; width: 100%; height: 80px; display: flex; align-items: center; justify-content: center; margin-top: 10px;">Student's Signature</div>						

- (2) Figures to the right indicate full marks.
- (3) Draw neat and labelled diagram wherever necessary.

1 Give specific answers : 10

- (a) Define : (i) Pock
(ii) Plaque.
- (b) Why have plant viruses not been as well studied as animal and bacterial viruses ?
- (c) Explain the terms :
(i) Burst size
(ii) Rise period.
- (d) How does a viroid differ from a virus ?
- (e) State the importance of interferon in virus infected cells.

2 Attempt any **two** of the following : 12

- (a) Explain giving reasons how viruses differ from cellular organisms.
- (b) What are prions ? "Prions cause a variety of neurodegenerative disease in humans and animals" Explain.
- (c) "Some viruses undergo lysogeny" Explain.

- 3** Answer any **two** of the following long questions : **16**
- (a) What is a cytotoxic infection ? Discuss the ways in which viruses can damage host cells during cytotoxic infection.
 - (b) Anomalies in viral classification has been overcome by I C T V explain.
 - (c) Discuss in detail how cultivation of viruses depends on appropriate host cells.
- 4** Write short notes on any **three** of the following : **12**
- (a) Historical highlights in virology
 - (b) Insect viruses
 - (c) Viruses and cancer
 - (d) Lytic cycle of T4 phage
 - (e) Persistent, Latent and Slow Viral infections.
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