| Seat No.: |  |
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## **AD-112**

## April-2015

## B.Sc., Sem.-VI

## Paper-308 : Microbiology (Virology & Mycology)

| Time: 3 Hours]        |  |                         | [Max. Marks: 70   |        |
|-----------------------|--|-------------------------|---|--------|
| <b>Instructions</b> : |  | ons: (1) (2) (3)        | Attempt <b>all</b> questions.  Draw figures wherever necessary. <b>All</b> questions carry equal marks. |        |
| 1.                    | Ansv<br>(A)  | wer the folk Describe t | 14  |        |
|                       | (B)  | Explain th              |   |        |
|                       | (C)  | -                       | subviral entities? Explain viroids in detail.   |        |
|                       | (D)  |                         | he methods of enumeration of viruses.   |        |
| (                     | Explain the following (any <b>two</b> ):                     |                         |   | 14     |
|                       | (A)  | Replicatio              |   |        |
|                       | (B)  | Single stra             |   |        |
|                       | (C) Types of viral infections and their effect on host cell. |                         |   |        |
|                       | (D)  | Lysogenic               | conversions.  |        |
| 3.                    | Describe the following (any <b>two</b> ):                    |                         | 14  |        |
|                       | (A)  | Hyphal me               | odifications of fungi.  |        |
|                       | (B)  | Preservation            | on of fungi.  |        |
|                       | (C)  | Secondary               | metabolites of fungi and their significance.  |        |
|                       | (D)  | Fungal pla              | ant diseases.   |        |
| (A)<br>(B)<br>(C)     | Explain the following (any <b>two</b> ):                     |                         | 14  |        |
|                       | (A)  | Asexual re              | eproduction in fungi.   |        |
|                       | (B)  | Fruiting be             | odies of fungi.   |        |
|                       | (C)  | Criteria us             | sed for fungal classification.  |        |
|                       | (D)  | Ascus dev               | relopment.  |        |
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- 5. Answer in short (not more than 2 lines):
  - (A) What is meant by cytopathic effect?
  - (B) Give one example of RNA phage.
  - (C) What are secondary cell lines?
  - (D) What is meant by plus strand RNA?
  - (E) Give one example of virulent double stranded DNA phage.
  - (F) Differentiate between dikaryotic and diploid cell.
  - (G) What is dolipore septum?
  - (H) Why rose Bengal medium is selective for fungi (give any two reasons)?

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- (I) Define eucarpic fungi.
- (J) What is meant by homothallism?
- (K) Differentiate between gametangial contact and gametangial copulation.
- (L) What is dermatomycosis?
- (M) Define prophage.
- (N) What is clamp connection?

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