DVV-02012123   Seat No. _____

M. Sc. (IT & CA) (Sem. - III) Examination

May / June – 2015

EMY - 3043 : High performance computing cluster service computing

(New Course)

Time : **3** Hours]   [Total Marks : **70**

1   Answer the Following Questions : (Any Three)   **15**

   (1)   Explain High Performance Computing

   (2)   Explain Introduction to Clusters

   (3)   Explain Superscalar Processors

   (4)   Differentiate Single instruction multiple data(SIMD) and Multiple instruction multiple data(MIMD)

2   Answer any Two: **20**

   (1)   What are Passing Multi computers? Explain

   (2)   Write detail note on Message-passing Programming

   (3)   Differentiate Automatic vs. Manual Paralleiization

3   Answer the Following Questions : (Any Three)   **15**

   (1)   What is PVM? How PVM works

   (2)   Write note on Symmetric Multiprocessors

   (3)   List and explain Advantages of Cluster Server

   (4)   List and explain Advantages Parallel Computer

4   Answer any Two: **20**

   (1)   What is Cluster Server? List Attributes of clusters

   (2)   Write detail note on Shared memory multiprocessing architecture model

   (3)   Explain Cluster Design and Networking concepts