

**National University of Computer and Emerging Sciences, Lahore Campus**



<b>Course:</b>	<b>Advance Database Concepts</b>	<b>Course Code:</b>	<b>CS451</b>
<b>Program:</b>	<b>BS(Computer Science)</b>	<b>Semester:</b>	<b>Spring 2018</b>
<b>Date:</b>	<b>20-Mar-2018</b>	<b>Total Marks:</b>	<b>10</b>
<b>Quiz</b>	<b>2 (Hashing Techniques)</b>	<b>Weight:</b>	
<b>Section</b>	<b>CS</b>	<b>Max. Time:</b>	

**Q:** Suppose that we are using extendable hashing on a file that contains records with the following search-key values: 5, 7, 11, 17, 18, 19, 23, 27, 37, 39  
Show the extendable hash structure for this file if the hash function is  $h(k) = k \bmod 8$  and buckets can hold three records. Show your working.

**Ans:** Extendable hash structure:

