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Quiz-3, Data Structure, Date: 17-November-2026, Section-B , Fall - 2026, Time: 30 Mins

1. Suppose you have a data set with elements: A, B, C, D. You need to store them in a Circular linked list with sentinel value. If memory cells available are: M1, M2, M3, M4, M5 then construct the linked list.
   After construction, insert two elements E and F as first and last elements. Draw the linked list.
   After that delete one element A and draw the linked list. [marks: 3+3+2]
2. Explain Double ended Queue with example. [marks:4]
3. If you have a circular queue of size 6 and perform the following operations, draw the result after each step: [marks: 3]
   I. Insert 5 elements: A, B, C, D, E
   II. Insert 2 elements: F, G
   III. Delete 7 elements