

# EXAMINATION QUESTION PAPER

PG-DAC FEB 2020

Module Name : Oops with C++ AND Algorithm using Data Structures

DATE: 21 /12 / 2020

Duration: 3 hrs.

Max. Marks: 40 + 40

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## Instructions:

- All Questions are compulsory.
  - The distribution of total marks for a question is given in the form of steps.
  - Students will be given marks for the steps completed and **marks for following class / object, comments and other best practices.** (10 marks)
  - Take screenshot of output, and Store source code and screenshot in zip file
  - Kindly ensure before creating zip file, make sure all the required files should be closed to avoid any corruption of the zip file.
  - Zip File should be renamed with FULL PRN No. of the candidate.  
(For example: 200240120001.zip)
  - **Marks for linked list logic** (20 marks)
  - **Marks for queue logic** (20 marks)
  - **Marks for each function in question number 1.c** (5\*6 = 30 marks)
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### Q1. Implement Queue using singly linked list.

- a) Use class/object.
- b) Store String in the queue.
- c) Implement push, pop, isempty, isfull, front, rear function.

*push->Add data to queue*

*pop->Delete data from queue*

*front->Returns front element of queue*

*rear->Returns rear element of queue*

*(Don't use STL)*

\*\*\*\*\* ALL THE BEST!!!! \*\*\*\*\*