

**M.E.S WADIA COLLEGE OF ENGINEERING, PUNE-411001**

**Department of Computer Engineering**

Assignment –II (2019 PAT)

A.Y(2023-24)

Sem-I

Class:SE1

SUBJECT: Fundamentals of Data Structures

Date:

[Max. Marks 10 ]

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Q.1 Define the following terms with example

1. Linear Queue
2. Circular Queue
3. Priority Queue

Q.2 What is circular Queue? Explain the advantages of circular Queue over linear Queue.

Q.3 Convert the given Infix Expression from Infix to Postfix

$(a+(b*c/d)-e)$

Q.5 Represent the given polynomial expression using Generalized Linked List

$$P(x, y, z) = 9x^8y^2z + 4x^4y^3z^3 + x^6y^5z^4 + 8x^5y^2z + 7x^4y^6z + 4xyz + 3xz$$

-----BEST OF LUCK-----