# 7, 8, 9, 10-TUPLE COMPLETE PARTITIONS OF INTEGERS

## P. GEETHA, D. SAMUNDEESWARI and S. VIDHYA

Assistant Professor
Department of Mathematics
Periyar Maniammai Institute of Science
and Technology, Periyar Nagar
Vallam, Thanjavur, India

Assistant Professor
Department of Mathematics
Panimalar Engineering College
Chennai, India

Assistant Professor
Department of Mathematics
RMK College of Engineering
and Technology, Chennai, India

## Abstract

This paper presents the concepts of 7, 8, 9, 10-tuple (septuple, octuple, nonuple, decuple) complete partitions of integers and an attempt has been done for the theorem based on the last part of septuple, octuple, nonuple and decuple complete partitions of integers.

## Introduction

The partition function [1] $p(n)$ is defined as the number of ways, that the positive integer $n$ can be written as a sum of positive integers, as in $n = a_1 + a_2 + \ldots + a_r$. The summands $a_j$ are called the parts of the partition. Although the parts need not be distinct, two partitions are not considered as