

# Janki Devi Bajaj Government Girls College, Kota

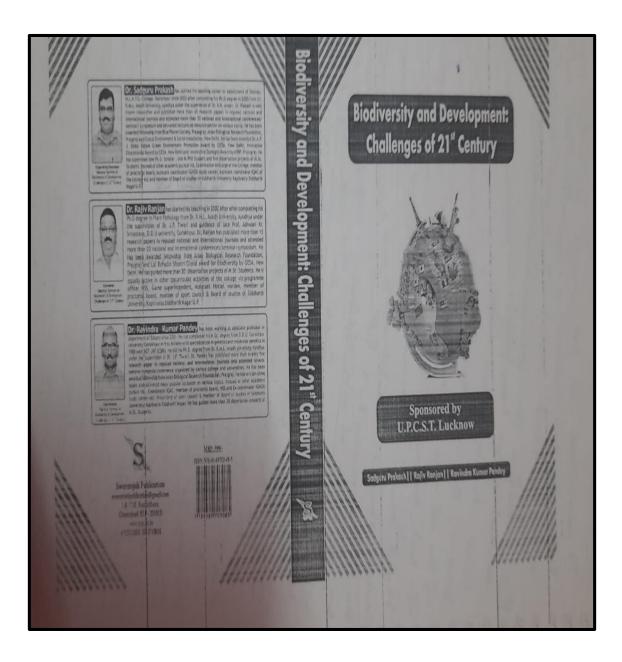


### Self-Study Report Criterion -3

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

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## 2018-19



### Biology of Complexes of Ruthenium(II) Mixedhalides

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#### ABSTRACT

The ability of Ru to exist in many oxidation states is an important property of this element, which plays an important role in its applications. Ruthenium readily form coordinate complexes and these complexes have their applications in diverse fields. Day-to-day expanding in the chemistry of ruthenium and its complexes is due to their applications directly or indirectly in determination of calcitonin level in blood, in Eleecysfolate RBC assay to estimate folate deficiency in RBC, as immunosuppressant, as antimicrobial agents, as antibiotic agents, as inhibitors to inhibit over production of nitric oxide in biological cell, as metallopharmaceuticals in treatment of various diseases including cancer, AIDS, radio sensitizers complexes with ruthenium are used in radiation therapy, as anti-metastasis drugs. Dragutan et al. in editorial special issue review wrote "Valorization of Ru complexes in photochemistry and agrochemicals will undoubtedly be forthcoming". A survey of literature shows that designing of new ligands that can complexed with ruthenium in various oxidation states can lead to develop new materials. Now, center of gravity of approach of biology together with chemistry and phys-

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