**Abstract**

Indole-3-carbaldehyde was treated with hydrazine hydrate to form hydrazones of indole. The synthesized derivatives were further treated with various aromatic aldehyde to afford schiff’s bases. On the other hand, mannich bases of indole derivatives were synthesized by reacting derivatives of indole with various aromatic and heterocyclic amines in presence of formaldehyde and dimethyl formamide. The newly synthesized compounds were characterized by FT-IR, 1H NMR & MASS spectra.

Schiff’s bases of indole derivates were evaluated for antibacterial and antifungal activity using cup-plate method. Synthesized mannich bases of indole derivatives were investigated for their anti-inflammatory activity using carrageenan induced paw oedema method in rat and analgesic activity using acetic acid induced writhing method in mice.

Some of the newly synthesized Schiff’s bases showed good antibacterial and antifungal activity. Some of Mannich bases of indole derivatives were found to possess good anti-inflammatory and analgesic activity.

**Keywords:** Indole; Schiff’s bases, Mannich bases, antibacterial activity, antifungal activity, invivo anti-inflammatory activity; analgesic activity.