























**Fig 4:** (A) UV-Vis spectra of chemosensor **1** in presence of various concentration of  $F^-$  ion; (B) Calibration curve as constructed from UV-Vis studies by plotting absorbance (at 283 and 327 nm) vs concentration of  $F^-$  ions; (C) Job's plot pertaining to 1:1 binding of chemosensor **1** with  $F^-$  at 327 nm; (D) Benesi-Hildebrand plots for evaluation of binding constant regarding the complexation of SETH with  $F^-$  obtained from UV-Vis.