**Detection of multicollinearity**

**The data file contains 29 observations on 11 variables sampled from NFHS 2005-06.**

**Y=**TFR

X1=HDI

X2=Infant mortality rate

X3=contraceptive use(any method)

X4=Female Age at marriage

X5=Median number of months since preceding the birth

X6=female literacy in percentage

X7=maternal care

X8=Male age at marriage

X9=percent of population with improved water supply

X10=male literacy in percentage

Check the multicollinearity and analyze the data using R package.

The evaluation pattern is as follows:

|  |  |  |
| --- | --- | --- |
| Section | Parameters | Marks |
| A | Objective/Aim | 2 |
| B | Analysis | 3 |
| C | Interpretation | 3 |
| D | Timely submission | 2 |
| Total |  | 10 |