

2. COL703: Minor-Q2 09:45-10:10, late submission accepted till 10:15, 1+10 = 11 marks

Consider the following argument written in FLASL.

IF "prices rise" THEN "the poor and the salaried class will be unhappy". IF "taxes are increased" THEN "the businessmen will be unhappy". IF ("the poor and the salaried class are unhappy" OR "the businessmen are unhappy") THEN NOT "the Government will be re-elected". "Inflation rises" IF "Government expenditure exceeds its revenue". IF NOT ("taxes are increased" OR "the Government resorts to deficit financing" OR "the Government takes a loan") THEN "Government expenditure will exceed its revenue". IF "the Government resorts to deficit financing" THEN "inflation rises". IF "inflation rises" THEN "prices rise". "the Government will be re-elected". THEREFORE "the Government takes a loan".

- (a) Is it logically valid or invalid?
- (b) Prove its validity/invalidity (using any method that you know).