**JAIPURIA INSTITUTE OF MANAGEMENT, INDORE**

**PGDM**

**FOURTH TRIMESTER (Batch 2020-22)**

**END TERM EXAMINATION, OCT-2021**

|  |  |  |  |
| --- | --- | --- | --- |
| Course Name | **Financial Modelling and Analysis** | Course Code | **FIN 401** |
| Max. Time | **2 hours** | Max. Marks | **40** |

**INSTRUCTIONS:**

1. The exam is to be conducted in the computer lab
2. All analysis to be written in SOFT copy (MS WORD) along with the excel sheets.
3. Suitable assumptions, if any may be made and highlighted using YELLOW colour.

**Questions.1 (10+10=20 Marks)**

Refer to the “Data File”. It contains the income statement and the balance sheet of a company of last 4 years. Forecast the Income statement and the balance sheet for next 3 years. The sales to be forecast should be computed in two separate methods:

1. CAGR of total revenue
2. Sales as a function of GDP (%) and inflation (%) and forecast the sales according to the regression results. Data is provided as a sub-file: Sales\_GDP\_Inflation”

Evaluate your forecast with the following ratios:

1. Current ratio
2. Efficiency ratio
3. Net profit ratio
4. Debt-equity ratio
5. Return on Equity

**Questions.2 (10 Marks)**

Refer to the “Returns” file. It contains weekly return of a stock. Fill up the “Green” coloured boxes. Draw the probability distribution of the various portfolio values as mentioned in the sheet

**Questions.3 (10 Marks)**

Refer to “Sensitivity Analysis” data. Evaluate the two dimensional sensitivity of the NPV and IRR at various **g** and **r** given. Draw and interpret the Tornado Chart (assume ± 15% for analysis).