**SHRI RAMSWAROOP MEMORIAL UNIVERSITY**

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| **PROBLEM SET – V** | | | |
| **Session** | **: 2025-26(Odd Sem)** | **Semester** | **: III** |
| **Course** | **: B.tech** | **Subject Code** | **: UCS 3804** |
| **Branch** | **: DS + AI** | **Subject Name** | **: Data Analytics & reporting**  **L T P C**  **2 1 0 3** |
| **Group** | **: ALL** | **Name of Faculty Member** | **: Mr. Sukhmander singh,**  **Ms. Deepika** |
| **Unit** | **: V** | **Topics Covered** | **: All Topics** |
| 1. **What is IBM Cognos Analytics? Briefly explain its role in business intelligence and reporting.** 2. **Describe the different types of reports that can be created in Cognos (e.g., simple, sorted, formatted, list, and crosstab reports).** 3. **What is the difference between preview mode and design mode in Cognos reporting?** 4. **Explain how personal data sources are managed in Cognos and how they can be used for creating reports.** 5. **How do you apply grouping, sorting, and formatting to a list report in Cognos?** 6. **What are crosstab reports? How do they differ from list reports, and in what scenarios are they more effective?** 7. **Compare static and interactive data visualizations in Cognos. Provide examples of when each is preferable.** 8. **How is time series data handled in Cognos visualizations? What chart types are suitable for time-based data?** 9. **What are detail filters and summary filters in Cognos reports? How are they applied to control report output?** 10. **Explain the process of creating a dashboard in Cognos. Include the use of templates, visualizations, and managing filters.**     **Supplementary Questions:**   1. **Design a Cognos dashboard that includes charts, crosstabs, and filters, and explain how it supports business decision-making.** 2. **Discuss the use of Cognos "Stories" for presenting data. How are they different from dashboards, and in what situations are they most useful?**   **TEXTBOOKS:**   1. **Data Science and Analytics** by V.K. Jain 2. IBM Courseware   **REFERENCE BOOKS:**   1. Data Analytics Made Accessible by Anil Maheshwari   **(Signature of the Faculty Member with date) (Signature of the Dean with date)** | | | |