

SHRI RAMSWAROOP MEMORIAL UNIVERSITY

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
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)