PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc (SS) DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch – SOFTWARE SYSTEMS (Five Years Integrated)

DISCIPLINE SPECIFIC ELECTIVE – I: DATA MINING

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1 Relational data can be accessed by ___ queries written in a relational query language.
   (i)   database   (ii) information
   (iii) view   (iv) model

2 ___ techniques can be applied to obtain a reduced representation of the data set.
   (i)   Data cleaning   (ii) Data reduction
   (iii) Data cluster   (iv) Data sample

3 A___ is a total or partial order among attributes in the database schema.
   (i) Multilevel   (ii) Schema Thread
   (iii) Schema hierarchy   (iv) Schema data

4 ___ is a typical density based method that grows clusters among to a density threshold.
   (i)   K-method   (ii) k-mean
   (iii) CLARANS   (iv) DBSCAN

5 A ___ database stores a large amount of space related data.
   (i)   Spatial   (ii) relational
   (iii) OLAP   (iv) Hierarchical

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6 a What is data mining?
                      OR
   b Write major issues in data mining.

7 a What is data warehouse?
                      OR
   b What is data preprocessing?

8 a Indicate FP tree.
                      OR
   b Identify the term boosting.

9   a   What is cluster analysis?

OR

b   How are ordinal variable handled?

10 a   Define the term spatial data.

OR

b   What is an application?

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11 a   Classify the data mining functionalities. Summarize.

OR

b   Kinds of data for data mining. Elucidate.

12 a   Enumerate the types of data.

OR

b   Describe the mining multidimensional association rules from relational databases.

13 a   Solve the aprior algorithms for data mining.

OR

b   Explain ensemble learning.

14 a   Analyze density based methods.

OR

b   Predict series databases and sequence data.

15 a   Explain any six trends in data mining.

OR

b   Discuss the social impacts of data mining.

Z-Z-Z   END