

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc (SS) DEGREE EXAMINATION DECEMBER 2024
(Fifth Semester)

Branch – SOFTWARE SYSTEMS (Five Year 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 _____ can be mined from many different kinds of databases.
(i) Data pattern (ii) Data mind
(iii) Data set (iv) Data predict
- 2 Outliers may be detected by _____.
(i) sampling (ii) cleaning
(iii) clustering (iv) reduction
- 3 _____ can be used as a data reduction techniques since it allows a large data set.
(i) reduction (ii) Sampling
(iii) Cluster (iv) cleaning
- 4 How many forms of data analysis and predication involve data cleaning?
(i) four (ii) one
(iii) three (iv) two
- 5 The _____ contain a rich and dynamic collection of hyperlink information and web page.
(i) Link (ii) Server
(iii) web (iv) Client

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 short notes on clustering.
- 7 a Describe the graph displays of basic statistical class.
OR
b How to design GUI based on a data mining query language?
- 8 a Explain the apriori algorithm to find frequent item sets using candidate generation.
OR
b What is linear and multiple regression?
- 9 a How does the k-means algorithm work?
OR
b Explain in detail about the text data analysis and information retrieval.

Cont...

- 10 a Describe the data mining applications for the telecommunication industry.
OR
b Is data mining merely manager's business or everyone's business? Explain

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Explain the architecture of a typical data mining system.
OR
b Briefly explain about classification of data mining.
- 12 a Elucidate about data cleaning.
OR
b Explain about a multidimensional data model.
- 13 a Describe about FP tree.
OR
b Evaluating the accuracy of a classifier. Summarize.
- 14 a Explain categories of major clustering methods.
OR
b Briefly discuss about challenges in mining data streams.
- 15 a Briefly explain about the various applications of data mining.
OR
b Describe the data mining applications for the web mining.

Z-Z-Z

END