

MAHATMA GANDHI UNIVERSITY
MCA DEGREE EXAMINATION
MODEL QUESTION PAPER
(2011 Revised Syllabi)
Fifth semester
MCA 504 DATA MINING

Time : Three hours

Maximum : 75 Marks

Part A

Answer any ten questions.
Each question carries 3 marks.

1. What are Data warehouses?
2. Explain Snowflakes and Fact Constellations.
3. Define hierarchical clustering.
4. What is outlier analysis?
5. Explain the features of Density-based clustering methods.
6. Compare and contrast classification and clustering.
7. Briefly discuss frequent item set mining.
8. Describe the Data Cube technology with an example.
9. Explain the issues related to classification and prediction.
10. Discuss any 3 data mining task primitives.
11. List any six applications of data mining.
12. Discuss major issues of data mining.

(10 x 3 = 30 marks)

Part B

All questions carry equal marks.

- 13.a) What is Decision Tree Induction? Explain basic algorithm for inducing a decision tree from training tuples.

OR

- b) What is prediction? Discuss the use of regression techniques for prediction?

- 14.a) Describe the methods for the generation of concept hierarchies for categorical data?

OR

- b) Describe the features of partition based clustering algorithms.

- 15.a) Describe the various functionalities of Data mining as a step in the process of knowledge discovery.

OR

- b) Explain the Apriori algorithm. Also explain how the association rules are generated from frequent item sets.

- 16.a) Write and explain any one algorithm for classification.

OR

- b) Discuss briefly the different steps in pre-processing of data.

- 17.a) Briefly discuss the architecture of data mining system.

OR

- b) What is meant by dimensionality reduction? Discuss any 2 methods.

(5 X 9 = 45 marks)

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Mg University Examination Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Mg University Examination Manual :

Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Mg University Examination Manual : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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