



PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 09-10-2025

Time: 09.30am to 11.00am

School: SOCSE	Program: ISE	
Course Code : ISE2502	Course Name: Information Retrieval	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	26	24			

Instructions:

- (i) *Read all questions carefully and answer accordingly.*
- (ii) *Do not write anything on the question paper other than roll number.*

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Define Information retrieval and its primary purpose.	2 Marks	L1	CO1
2	List any three characteristics of information needs	2 Marks	L1	CO1
3	Differentiate two types of feedback in IR with example.	2 Marks	L2	CO1
4	Describe inverted indexing	2 Marks	L2	CO2
5	Describe confusion matrix.	2 Marks	L2	CO2

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Interpret the architecture of a system designed to handle indexing, searching, and retrieval from large datasets and explain its working.	10 Marks	L2	CO1
Or					
7.	a.	Explain in detail the applications of Information retrieval with suitable examples.	10 Marks	L2	CO1

8.	a.	Describe in detail, the major problems faced by information retrieval systems.	10 Marks	L2	CO 1
Or					
9.	a.	Explain the types of information needs and types of query.	10 Marks	L2	CO 1
Or					
10.	a.	Explain the components and characteristics of good reference collection.	10 Marks	L2	CO 2
Or					
11.	a.	Describe various metrics used in user based evaluation.	10 Marks	L2	CO 2
12.	a.	<p>Apply Boolean retrieval model the given corpus and queries</p> <p>Documents:</p> <ul style="list-style-type: none"> D1: "Sports analytics uses machine learning" D2: "Football and cricket are popular sports" D3: "Data analytics in cricket strategy" D4: "Machine learning in robotics" <p>Query 1: (Sports OR cricket) AND (analytics OR strategy)</p> <p>Query 2: (Machine AND learning) AND NOT sports</p> <p>Query 3: (Football OR cricket) AND NOT robotics</p> <p>Query 4: (Analytics AND data) OR (sports AND learning)</p> <p>Query 5: (Cricket AND strategy) OR (machine AND robotics)</p>	10 Marks	L3	CO 2
Or					
13.	a.	<p>Apply vector space model the given corpus and queries</p> <p>Documents:</p> <ul style="list-style-type: none"> D1: "Stock markets respond to global economic trends" D2: "Investors analyses financial statements carefully" D3: "Global trade agreements affect stock prices" D4: "Cryptocurrency is a modern financial innovation" D5: "Banking sector adapts to economic challenges" 	10 Marks	L3	C O2

	<p>Queries:</p> <p>Global economic trends impact on stock markets and banking</p>		
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